



Building with conscience.

StoVentec® for Masonry Veneer Facades

Design Guide and Detail Booklet
Series 90.M.xx | November 2025

Façades



Interiors



Ventilated Rainscreen
cladding systems

StoVentec® for masonry veneer facades is a lightweight, energy efficient rainscreen wall system. It incorporates continuous insulation, sub-construction and a continuous air and water-resistive barrier in a fully engineered and tested system. StoVentec for masonry veneer facades integrates seamlessly with other Sto finishes and cladding materials, including StoVentec Fiber Cement, Glass, and Render rainscreen wall systems.





Design Guide



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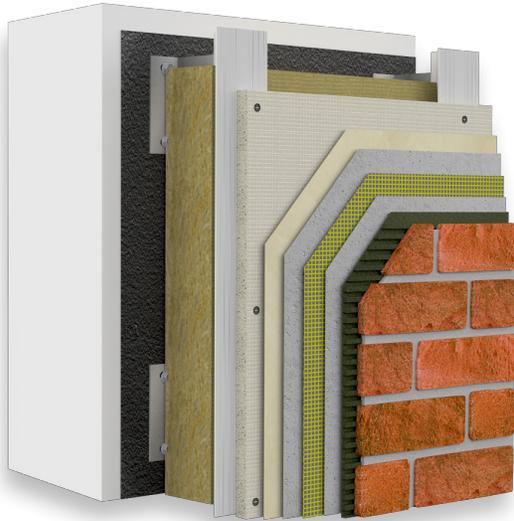
The final design of any project is the sole responsibility of the Design Professional, with considerations for compliance of local building and design codes and requirements. Sto Corp. accepts no liability for design, engineering, or workmanship of any project. The information provided herein is in addition to other technical data provided by Sto Corp. (System Bulletin, Specification, Guide Details, etc).

For more information, please visit www.stocorp.com

Version 1.2 - November 2025

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StoVentec® for Masonry Veneer Facades

The Original Complete Rainscreen® System

StoVentec for masonry veneer facades is a drained and back-ventilated, fully engineered rainscreen wall system designed for use with thin masonry veneers. The system consists of five principal components: an air and water-resistive barrier, an adjustable sub-construction, thermal insulation, a lightweight composite carrier board made from recycled glass granulates, and the masonry veneer finish.

All Sto components are covered by a single-source warranty from Sto Corp., are manufactured under an ISO 9001 certified quality system, and are tested as a system to conform with building code requirements. StoVentec for masonry veneer facades delivers high impact strength and puncture resistance, energy efficiency, and fire protection while affording broad design freedom.



Air and Water-Resistive Barrier

The first component of the StoVentec MVF system is Sto AirSeal®. It is a fluid applied Air and Water-Resistive Barrier (AWRB) designed for use on most substrates, including glass mat gypsum sheathing, wood-based sheathing, concrete, and masonry. Sto AirSeal® protects walls against moisture damage from rain during construction and provides secondary moisture protection while the building is in service. It functions as the primary air barrier component in the wall assembly and comes with multiple transition components for maintaining AWRB continuity at joints, seams, wall penetrations, and across dissimilar materials. Sto AirSeal® features 500% tensile elongation, meets requirements of ASTM C1305 Low Temperature Crack Bridging and offers building code compliance confirmed by ICC-ESR 1233. Alternatively, [Sto Gold Coat®](#), in a medium or high-build application, may also be used with StoVentec systems, or [Sto VaporSeal®](#) can be used where a vapor impermeable air and water-resistive barrier is specified. Further, [Sto GoldSeal STPE](#), [StoShield™ SA VP](#), and [StoShield™ SA NP](#) are also available options.



StoVentro™ sub-construction

Sub-construction plays a vital role in wall design and construction. In addition to forming the structural link between façade and base wall, it also provides design flexibility. Adjustable StoVentro wall brackets, together with StoVentro T and L-profiles, work to accommodate substrate imperfections and to create correctly sized ventilation cavities for continuous insulation that allow air circulation within limits defined by NFPA 285 fire propagation testing.



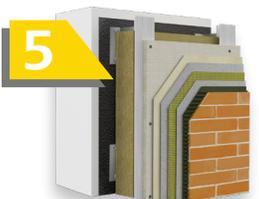
Thermal Insulation

StoVentec uses Rockwool Cavityrock® continuous insulation. This ASTM C612 Type IVB (CAN/ULC S-702, Type I) and ASTM E136 compliant mineral wool provides exceptional thermal performance, fire resistance, acoustical control and moisture resistance. StoVentec offers [thermal efficiency modeling reports](#) by Morrison Hershfield for each of our StoVentro bracket types in order to help projects meet certain energy code U-factor or R-value requirements.



StoVentec® Carrier Board

Many of the unique properties of StoVentec are derived from the StoVentec Carrier Board, a lightweight composite board made from recycled glass granulates with extraordinary properties. By combining strength and impact resistance with flexibility and light weight, StoVentec Carrier Board opens new possibilities. High impact resistance combined with corrosion resistance takes durability to a new level. StoVentec Carrier Board is the blank canvas on which a broad variety of masonry veneers find expression.

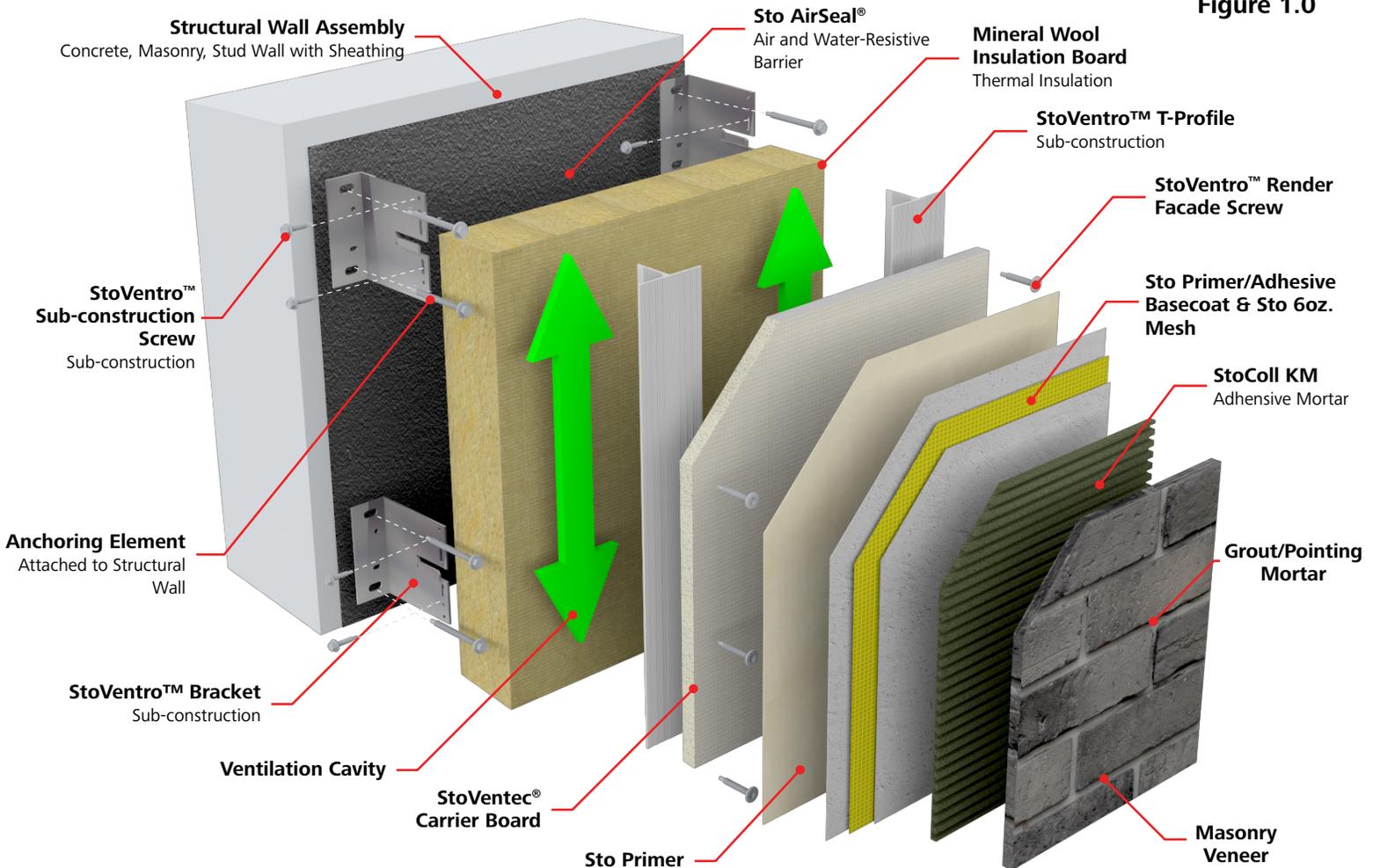


Architectural Finish System

Thin brick, manufactured or natural stone, or ceramic tile in conformance with applicable building code requirements may be used with StoVentec for masonry veneer facades. StoColl KM polymer modified portland cement adhesive mortar, compliant with ANSI 118.4, is used for adhering the masonry veneer units over a reinforced basecoat. Refer to [Tech Hotline No. 0821-M: Quick Reference Guide on Adhered Masonry Veneers](#).



Figure 1.0



Glossary of Terms

StoGuard® Air & Water-Resistive Barrier – a liquid applied or self-adhered membrane air & water-resistive barrier available as a vapor-permeable or vapor-impermeable component.

Mineral Wool Insulation Board - Rockwool Cavityrock® or Cavityrock Black insulation provides thermal insulation, fire resistive characteristics, and acoustical control. (Not provided by Sto Corp.)

StoVentec™ Sub-construction – Zn-Al-Mg-coated steel or Aluminum wall brackets with aluminum vertical support profiles.

StoVentec™ Bracket – Adjustable Zn-Al-Mg-coated steel or aluminum support for vertical 'L' and 'T' profiles. Steel brackets with Spring Fingers (as shown in illustrations) are optional (non-standard, made-to-order) versions with a lead time.

StoVentec™ Thermal Blocking Element – 6mm (1/4in) thick thermal break accessory that isolates the wall bracket from thermal bridging effects of the primary structure. (Not shown)

StoVentec™ T-Profile – Vertical aluminum profile, attached to the wall brackets, which supports StoVentec® Carrier Board.

StoVentec™ Sub-construction Screw – Stainless steel fastener that provides wall bracket to vertical profile attachment.

StoVentec™ Render Facade Screw – Stainless steel fastener that provides attachment of StoVentec® Carrier Board to vertical StoVentec™ T-Profiles.

Ventilation Cavity – The circulating air layer between the Mineral Wool Insulation Board and StoVentec® Carrier Board.

StoVentec® Carrier Board – Lightweight composite board made of recycled glass granulate.

Sto Primer – Surface primer for uniform absorption.

Sto Primer/Adhesive Basecoat & Sto Mesh 6oz. – High strength polymer modified portland cement basecoat with glass fiber reinforcing mesh for surface leveling, moisture protection and carrier board reinforcement.

StoColl KM Adhesive Mortar – High strength polymer modified portland cement mortar for adhering masonry veneers.

Masonry Veneer – Offers architects and builders a wide range of design possibilities with thin brick or other masonry veneers. (Not provided by Sto Corp.)

Grout/Pointing Mortar – polymer modified portland cement-based mortar in compliance with ANSI 118.7 for filling joints between masonry veneer units. (Not provided by Sto Corp.)

StoVentec™ L-Profile – Aluminum support member used at inside and outside corners for structural attachment. (Not shown)

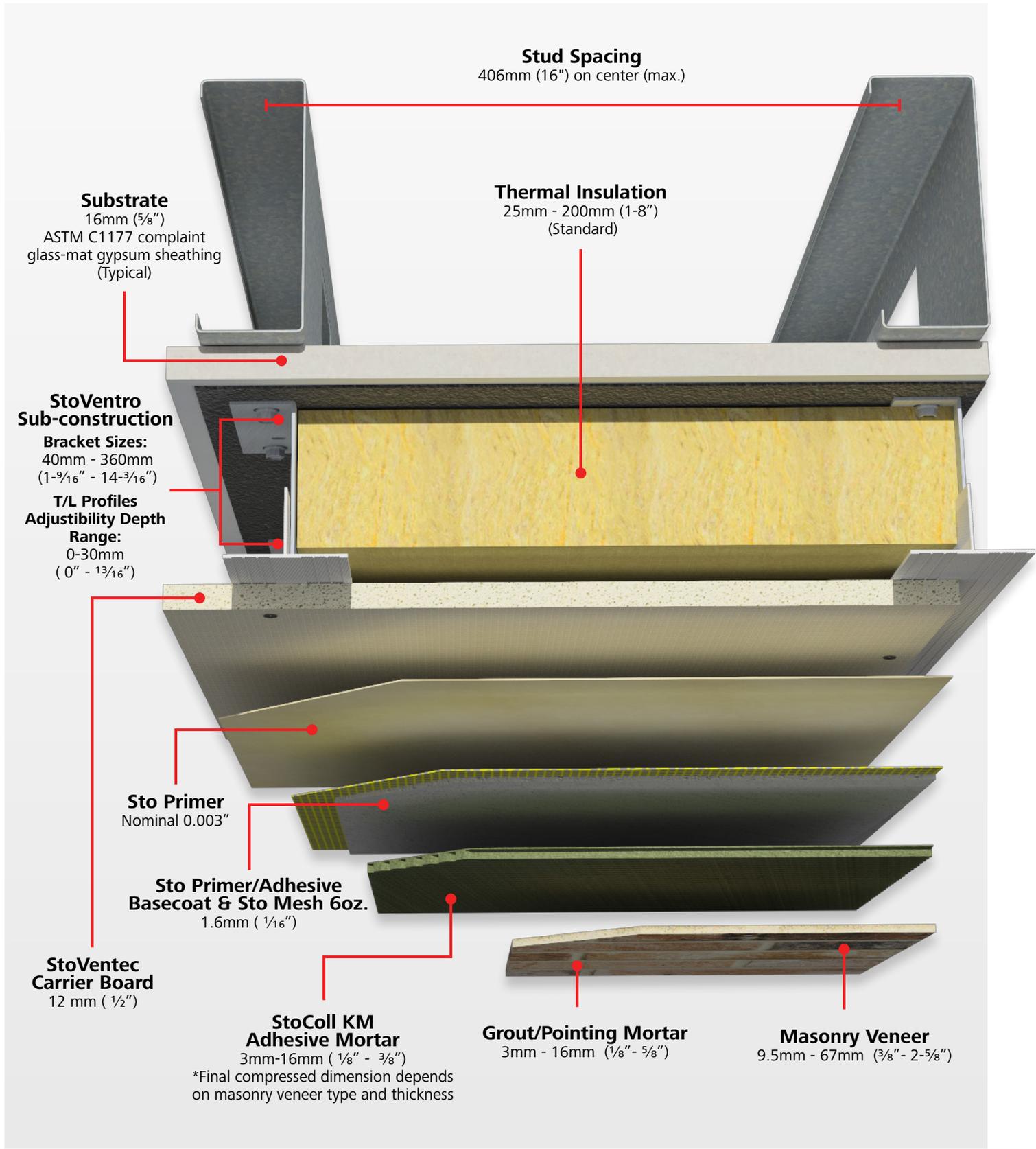
Sto Edge Protection Profile – Sto PVC edge profile with integral glass fiber reinforcing mesh for 12mm StoVentec® Carrier Board to provide protection of carrier board edges in weather exposed portions of the building. (Not shown)

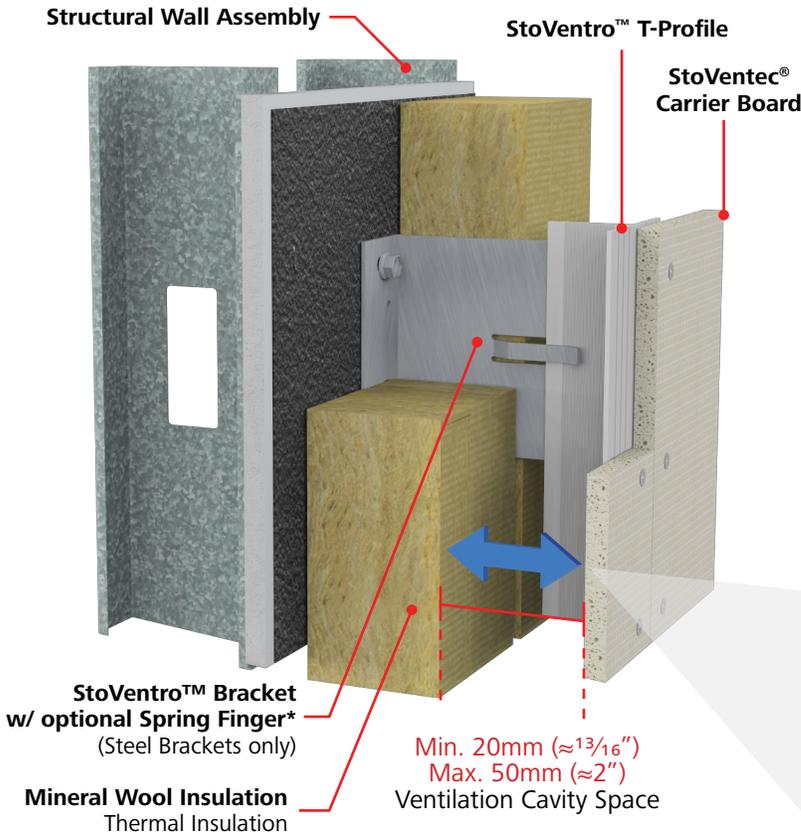
Anchoring Element – Engineered, code compliant fastener for attachment of StoVentec™ Bracket to structural wall.



System Buildout Depths

Figure 2.0





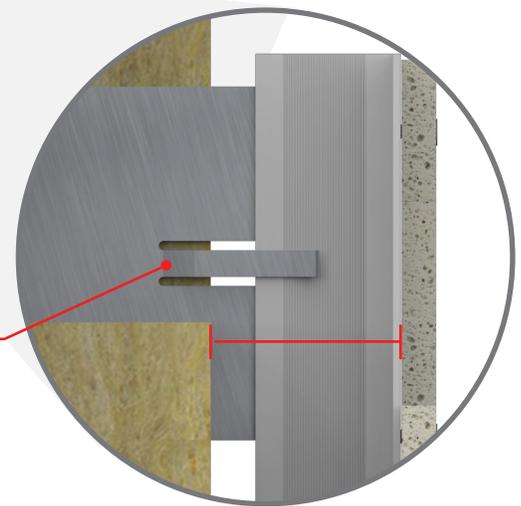
Ventilation Cavity

The ventilation cavity is measured from the exposed side of the mineral wool insulation board to the back surface of the StoVentec Carrier Board, as shown in Figure 4.0.

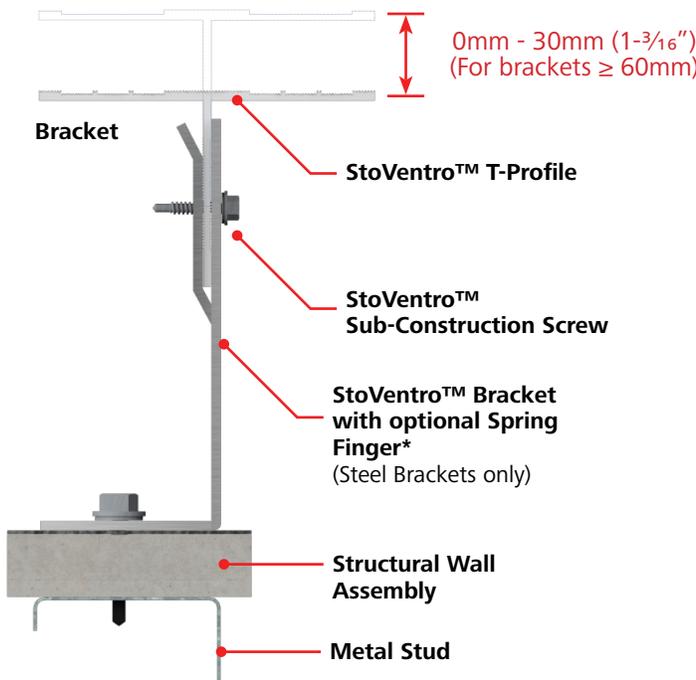
Minimum Cavity Width: 20mm (≈13/16'')
 The vertical support profile (StoVentec T-Profile) is fully inserted into the spring fingers and fastened to brackets with two StoVentec Screws, utilizing fixed or sliding point connections.

Maximum Cavity Width: 50mm (≈2'').
 The vertical support profile (StoVentec T-Profile) is minimally inserted within the bracket spring finger and fastened with two Stoventec Screws, utilizing fixed or sliding point connections.

Figure 4.0



Spring Finger*
 Receiving slot for T-Profile
 (optional w/ steel brackets only)



Bracket Adjustability

Consisting of 6005A-T5 or 6063-T66 grade aluminum, the T/L-Profile is adjustable to the StoVentec brackets a maximum of 30mm (1 -3/16'') for brackets ≥ than 60mm (20mm adjustability for 40mm sized brackets) to accommodate substrate imperfections and proper ventilation cavity depths. Once fixed in place, the T/L-Profiles provide the support attachment for StoVentec Carrier Board as shown in Figure 4.1.

*Standard steel StoVentec Brackets do not include the Spring Finger option. Brackets with spring fingers are made to order, requiring a lead time. Spring Fingers are not available on Aluminum brackets.

Figure 4.1

Table 1.0 - Bracket Sizing and System Depth* as determined by Insulation Requirements

	Insulation ⁴ Size Required				Sto Wall Bracket Size Required (mm)	- Minimum - Distance from AWRB ³ to Front Face of Base Coat ⁶ (mm)	- Minimum - Distance from AWRB ³ to Front Face of Base Coat ⁶ (in)	- Maximum - Distance from AWRB ³ to Front Face of Base Coat ⁶ (mm)	- Maximum - Distance from AWRB ³ to Front Face of Base Coat ⁶ (in)
	Width (in)	Width (mm)	R-Value ¹	RSI-Value ²					
Standard	0-1"	0-25	0, 4.3	0, 0.74	40	66.3 ⁷	2-5/8"	86.3	3-3/8"
	1"	25	4.3	0.74	60	76.3	3"	106.3	4-3/16"
	1.5"	38	6.45	1.11	60	76.3	3"	106.3	4-3/16"
	2"	50.8	8.6	1.48	80	96.3	3-13/16"	126.3	5"
	2.5"	63.5	10.7	1.85	100	116.3	4-9/16"	146.3	5-3/4"
	3"	76.2	12.9	2.22	100	116.3	4-9/16"	146.3	5-3/4"
	3.5"	88.9	15	2.59	120	136.3	5-3/8"	166.3	6-9/16"
	4"	101.6	17.2	2.96	120	136.3	5-3/8"	166.3	6-9/16"
	4.5"	114.3	19.3	3.33	140	156.3	6-1/8"	186.3	7-3/8"
	5"	127	21.5	3.70	160	176.3	6-15/16"	206.3	8-1/8"
	5.5"	139.7	23.6	4.07	160	176.3	6-15/16"	206.3	8-1/8"
	6"	152.4	25.8	4.44	180	196.3	7-3/4"	226.3	8-7/8"
	6.5"	165.1	27.9	4.81	200	216.3	8-1/2"	246.3	9-11/16"
	7"	177.8	30.1	5.18	200	216.3	8-1/2"	246.3	9-11/16"
8"	203.2	34.4	5.92	220	236.3	9-5/16"	266.3	10-1/2"	
Special Design Considerations Required⁵	8.5"	215.9	36.5	6.29	240	256.3	10-1/16"	286.3	11-1/4"
	9"	228.6	38.7	6.66	260	276.3	10-7/8"	306.3	12-1/16"
	9.5"	241.3	40.8	7.03	260	276.3	10-7/8"	306.3	12-1/16"
	10"	254	43	7.40	280	296.3	11-5/8"	326.3	12-13/16"
	10.5"	266.7	45.1	7.77	300	316.3	12-7/16"	346.3	13-5/8"
	11"	279.4	47.3	8.14	300	316.3	12-7/16"	346.3	13-5/8"
	11.5"	292.1	49.4	8.51	320	336.3	13-1/4"	366.3	14-7/16"
	12"	304.8	51.6	8.88	320	336.3	13-1/4"	366.3	14-7/16"
	12.5"	317.5	53.7	9.25	340	356.3	14"	386.3	15-3/16"
	13"	330.2	55.9	9.62	360	376.3	14-13/16"	406.3	16"
	13.5"	342.9	58	9.99	360	376.3	14-13/16"	406.3	16"

¹ R = 4.3 per 1 inch

² RSI = 0.74 per 25mm

³ AWRB= Air and Water-Resistive Barrier

⁴ ROCKWOOL® Cavityrock® or equal

⁵ Multiple layers of insulation required

⁶ Add 6mm to system depth when using Sto Thermal Blocking Elements

⁷ T-Profile is taller (52.7mm) than the 40mm bracket

* 25mm, 40-360mm (in 20mm increments) available. Add Masonry Veneer and adhesive mortar thickness to calculate full system thickness.

Table 1.1 - System Information

Feature	Description	Value
Application	Approved for vertical walls only up to 6-stories or 72ft (22m) in height, whichever is less. Case-based exceptions possible.	Above grade only, exterior and interior. Commercial, Residential and Institutional construction.
Warranty	Limited Warranty	10 Year
System Component	Component 1 - Air and Water-Resistive Barrier (AWRB)	Sto AirSeal®. Fluid applied, vapor permeable AMB (alternatives: any of the StoGuard® family)
System Component	Component 2 - Sub-Construction	StoVentro™
System Component	Component 3 - Insulation	Rockwool Cavityrock®, Cavityrock Black, or equivalent ASTM C612, E136 compliant
System Component	Component 4 - Carrier Board	StoVentec® Carrier Board (primed with Sto Primer)
System Component	Component 5 - Masonry Veneer	Masonry Veneer (thin brick), in compliance with ASTM C1088, installed with StoColl KM adhesive mortar over Sto Reinforced Base Coat; grouted/pointed with portland-cement grout in compliance with ANSI 118.7. Or manufactured or natural stone or ceramic tile: see Tech Hotline No. 0821-M: Quick Reference Guide on Adhered Masonry Veneers
System Weight	Weight range of Sto Base coat and Sto Mesh, StoVentec Carrier Board, StoVentro Sub-construction, Thermal Insulation and StoColl KM. (Does not include masonry veneer)	≈20.86 to ≈31.16 kg/m ² (4-6 lb./ft ²) Variable based on cavity depth and cladding
System Weight	Weight of StoVentec Carrier Board without Adhered Masonry Veneer	6 kg/m ² (1.23 lb./ft ²)
System Weight	Weight of StoVentro Sub-construction	≈2.00 kg/m ² (0.41 lb./ft ²) Variable based on cavity depth
System Weight	Weight of Thermal Insulation	0.75 - 2.63 lb/ft ² (3.66 - 12.84 kg/m ²) at 2"-7" (51 - 178mm) thickness
Substrates	Allowable wall substrates	Steel or wood frame with glass mat gypsum sheathing in compliance with ASTM C1177, code compliant OSB or plywood sheathing, concrete or core-filled concrete masonry, existing structurally sound, uncoated brick or other masonry wall construction. For others, contact Sto Corp.
Substrates	Horizontal spacing (stud spacing) of vertically oriented StoVentro T-profiles mounted in StoVentro brackets	406mm (16") on center
Substrates	Vertical spacing of StoVentro brackets	Varies based on wind loads and/or pre-engineering. See CCRR 0454 or StoVentec load tables.
Ventilation	Ventilation is required at top and bottom of masonry veneer panels	Minimum 10mm (¾") gap
Ventilation Cavity	Thickness of unobstructed air cavity between face of wall mounted insulation and rear surface of StoVentec Carrier Board	20mm - 50mm (1¾" - 2")
Deflection Limit	Recommended allowable deflection limit	L/400
Structural	Structural Wall Assembly level tolerance	6mm in 3.0m (¼" in 10')
System Layout	Gap between StoVentec Carrier Board outside edge and all other physical building elements (if ventilation profile IS NOT used)	< 5mm - 20mm (¾" - 1¾")
System Layout	Gap between StoVentec Carrier Board outside edge and all other physical building elements (if ventilation profile IS used)	25mm (1")
System Layout	Clearance of finished veneer surface above ground level	150mm (5-7/8") (minimum)

Table 1.1 - System Information (cont'd)

Feature	Description	Value
System Layout	StoVentec Carrier Board installation	Carrier boards butt end shall be centered horizontally on the mounting surface of the 90 mm wide vertically oriented T-profiles. See StoVentec Carrier Board Product Bulletin
System Layout	Aluminum L-Profile Stops	Use of aluminum L-Profile Stops are REQUIRED at all outside exposed edges of StoVentec Carrier Board (i.e. All exposed perimeter edges)
System Layout	Sto Edge Protection Profiles	Use of Sto Edge Protection profiles on non-weather exposed joints in lieu of aluminum L-Profile Stop.
System Layout	StoVentec Carrier Board corners	Use of Sto Mesh Corner Bead required on all outside corners, jambs, and returns of masonry veneer.
System Layout	StoVentec Carrier Board connections to other structures/elements	Use of backer rod and sealant (by others) required at interfaces with other structures and elements.
System Layout	StoVentec Carrier Board orientation	Install carrier boards horizontally in a running bond pattern.
System Layout	Quantity of fixed point (FP) connections to T/L profile	1 maximum
System Layout	Quantity of sliding point (GP) connections to T/L profile	At least one sliding point is required. Actual quantity is defined by project-specific engineering calculations.
Joint Requirements ¹	Max. seamless distance between expansion joints in the field of the walls with length to width ratio not in excess of 2:1	Horizontal joints: 11.5' (3505mm) Vertical joints: 19.8' (6000mm)
Joint Requirements ¹	Joints are required in the system as follows	<ul style="list-style-type: none"> • At existing movement joints in back-up wall construction • At through wall joints in back-up wall construction • At dissimilar back-up wall construction (e.g., frame wall to masonry wall) • At floor line deflection joints in steel frame construction • At floor lines in multi-level wood-frame construction • Within areas of not greater than 144ft² (13.4m²) with length or height not more than 18ft (5.5m) for Thin Brick, with length/width ratio not in excess of 2.5 :1.
Joint Requirements ¹	At junctions or abutments to dissimilar building components	Windows, doors, alternative façade materials, pipe, scupper and similar through wall penetrations.
Fire Break	Required (Horizontal)	Refer to StoVentec® Details for material and configuration.
Flashing	Recommended	Refer to StoVentec® Details for material and configuration.
AWRB	StoGuard® Air and Water-Resistive Barrier (AWRB)	Vapor permeable or impermeable per project specific requirement, as manufactured by Sto Corp.
AWRB	Thickness	30 DFT (50 wet mils) : Sto AirSeal® 40 DFT (66 wet mils) where specified: Sto AirSeal® 40 DFT (90 wet mils) where specified: StoGuard® VaporSeal®
AWRB	Color	Charcoal: Sto AirSeal® Green: VaporSeal® Yellow: Gold Coat® Graphite: StoShield™ SA VP Black: StoShield™ SA NP Gold: GoldSeal™ STPE

¹ Size joints in accordance with anticipated movement

Table 1.2 - Component Information

Feature	Description	Value
StoVentro Zn-Al-Mg Steel Brackets		
Sub-Construction	Bracket material	HSLAS-F Gr. 80 + Zn-Al-Mg coated steel
Sub-Construction	Bracket: Small StoVentro Bracket (GP) W x H x T1 Used for wind loading	50mm x 75mm x 2.0mm x variable depth (2" x 2-15/16" x 1/16")
Sub-Construction	Bracket: Large StoVentro Bracket (FP) W x H x T1 Used for dead/fixed point loading and wind loading	50mm x 130mm x 2.0mm x variable depth (2" x 5-1/8" x 1/16")
Sub-Construction	Depth Range	40mm - 360mm (1-9/16" - 14-3/16") (25mm (1") also available)
Sub-Construction	Bracket: Adjustability Depth Range	0mm - 30mm (0" - 1-3/16")
Sub-Construction	Protrusion of top of bracket above face of insulation	≈ 20mm (13/16")
Sub-Construction	Bracket weight	Variable by size
StoVentro Aluminum Brackets		
Sub-Construction	Bracket material	Aluminum: 6063-T66
Sub-Construction	Bracket: Small StoVentro Bracket (GP) W x H x T1 Used for wind loading	Bracket Sizes: 40mm-180mm sizes 50mm x 95.5mm x 3.2mm x variable depth (2" x 3-3/4" x 1/8") Bracket Sizes: 200mm-320mm sizes 50mm x 95.5mm x 4.2mm x variable depth (2" x 3-3/4" x 3/16")
Sub-Construction	Bracket: Large StoVentro Bracket (FP) W x H x T1 Used for dead/fixed point loading and wind loading	Bracket Sizes: 40mm-180mm sizes 50mm x 135mm x 3.2mm x variable depth (2" x 5-5/16" x 1/8") * 40mm-180mm sizes Bracket Sizes: 200mm-320mm sizes 50mm x 135mm x 4.2mm x variable depth (2" x 5-5/16" x 3/16") * 200mm-320mm sizes
Sub-Construction	Depth Range	40mm - 320mm (3-1/8" - 12-5/8")
Sub-Construction	Bracket: Adjustability Depth Range	0mm - 30mm (0" - 1-3/16")
Sub-Construction	Protrusion of top of bracket above face of insulation	≈ 20mm (13/16")
Sub-Construction	Bracket weight	Variable by size
Sub-Construction	Material (StoVentro L & T Profile)	Aluminum: 6005A-T5 or 6063-T66
Sub-Construction	Size: StoVentro T-profile (3m length)	90mm x 53mm x 2.7mm (3-9/16" x 2-1/16" x 1/8")
Sub-Construction	Weight/ft: StoVentro T-profile (approximate)	2.64 kg/m (0.54 lb./ft)
Sub-Construction	Size: StoVentro L-profile (3m length)	50mm x 40mm x 2.7mm (2" x 1-9/16" x 1/8")

Table 1.2 - Component Information (cont'd)

Feature	Description	Value
Sub-Construction	Weight/ft: StoVentro L-profile (approximate)	1.61 kg/m (0.33 lb./ft)
Sub-Construction	Fastener: Bracket to StoVentro T/L profile attachment	Hex Head (Torx), Self drilling screw, 5.5mm Dia. x 22mm L, with over torque feature, 304 SS. (3/16" x 7/8")
Sub-Construction	Fastener to Aluminum: StoVentec Carrier Board to StoVentro T/L profile attachment	Flat Head, Self drilling façade screw, 5.5mm Dia. x 24mm L (3/16" x 1 5/16") for attachment to aluminum substrate
Sub-Construction	Fastener to Carbon Steel substrates: StoVentec Carrier Board to carbon steel stud	Flat Head, Self drilling façade screw, 6.0mm Dia. x 28 mm L (1/4" x 1-1/8") 304 SS, for attachment to carbon steel substrates
Sub-Construction	Fastener to Wood Substrates: StoVentec Carrier Board to StoVentro T/L profile attachment	Flat Head, Self drilling screw, 5.0 mm Dia. x 42 mm L (3/16" x 1-5/8") 304 SS, for attachment to wood substrates
Sub-Construction	Bracket to substrate attachment fastener (anchoring fastener). Calculations performed by qualified licensed engineer	Project specific based on wind load, and substrate materials, defined by structural calculations, material: 304 stainless steel
Sub-Construction	Vertical gap between adjacent T/L profiles mounted in an end-to-end configuration	10 - 15mm (3/8" - 5/8")
Sub-Construction	Minimum fastening distance from top or bottom edge of T/L profile	≥ 10mm (3/8")
Insulation	Type: Mineral Wool Board	ASTM C612 (CAN/ULC S-702, Type I) compliant, non-combustible Mineral Fiber Block and Board Thermal Insulation: Type IA, IB, IVA.
Insulation	Weight: 50mm - 178mm (2" - 7") Thickness	0.75 - 2.63 lb/ft ² (3.66 - 12.84 kg/m ²)
Insulation	Thickness Minimum (for NFPA 285, CAN/ULC S-134 compliance)	50mm (2")
Insulation	Density	69 kg/m ³ (4.3 lb/ft ³) - monolithic density for 1, 1.5, 2" thicknesses 100 kg/m ³ (6.2 lb/ft ³) outer layer, 61 kg/m ³ (3.8 lb/ft ³) inner layer - dual density for 2.5" or thicker
Insulation	Thermal Conductivity	0.033 W/cm · K (0.23 (BTU·in)/(hr·ft ² ·°F), @ 75°F)
Insulation	Thermal Resistance	R-Value = 4.3 per inch, RSI = 0.75 per 25mm of thickness
Insulation	Attachment to substrate wall	Insulation dowels by others, per insulation manufacturer instructions.

Table 1.2 - Component Information (cont'd)

Feature	Description	Value
Carrier Board	Size: Height x Width	1219.2mm x 2438.4mm (4' x 8')
Carrier Board	Thickness	12mm (½")
Carrier Board	Recycled content	StoVentec Carrier Board is comprised of 90+% post-consumer recycled glass granulate
Carrier Board	Bending Tensile Strength, average	≈ 8 N/mm ² (1160 lb.in ²) per DIN EN 100
Carrier Board	Bending Tensile Strength, minimum	≈ 5.5 N/mm ² (798 lb.in ²)
Carrier Board	StoVentec Carrier Board cantilever: vertical overhang of carrier board edge past vertically oriented StoVentro T/L profile.	38mm nominal (1-½")
Carrier Board	StoVentec Carrier Board cantilever: horizontal overhang of unsupported carrier board edge past StoVentro T-profile (reinforcing StoVentro L-profile behind carrier board NOT required)	< 152mm (< 6") Reference detail 90.M.049
Carrier Board	StoVentec Carrier Board cantilever: Use of reinforcing StoVentro L-profile behind carrier board REQUIRED for horizontal overhang of carrier board edge past StoVentro T-profile	152mm (6") < length ≤ 406mm (≈ 16") Reference detail 90.M.049
Carrier Board	StoVentec Carrier Board cantilever: Use of reinforcing StoVentro L-profile required in outside corner condition of two adjacent carrier boards	L-profile required
Carrier Board	Connection of T/L profiles in end-to-end connection	Large brackets are required to secure T/L profiles in end-to-end condition. Note: Brackets in this condition function as fixed point (FP)/gliding point (GP), or gliding point (GP)/gliding point (GP). Configuration of brackets in fixed point (FP)/fixed point (FP) condition is not recommended. See Detail 90.M.045-048.
Carrier Board	StoVentec Carrier Board attachment at horizontal edges	51 mm (2") from edge
Carrier Board	StoVentec Carrier Board attachment at vertical edges	25mm (1") from edge For reference, see Detail 90.M.001
Carrier Board	StoVentec Carrier Board attachment at horizontal edge from edge of StoVentro T-profile	≥ 10mm (¾") from edge For reference, see Detail 90.M.001
Carrier Board	StoVentec Carrier Board attachment in field of carrier board to vertically oriented StoVentro T-profile	Installed in a staggered pattern, typically 152mm (6") o.c. Wind load for the project may dictate closer spacing. For reference, see Detail 90.M.001
Carrier Board	StoVentec Carrier Board attachment at adjacent carrier boards to vertically oriented StoVentro T-profile	Installed in a straight pattern, typically 152mm (6") o.c. Wind load for the project may dictate closer spacing. For reference, see Detail 90.M.001
Masonry Veneer	Base Coat & Mesh	StoPrimer/Adhesive with Sto Mesh 6oz. embedded
Masonry Veneer	Thickness (Sto Base Coat and Sto Mesh)	Nominal ¼"(1.6mm)

Table 1.2 - Component Information (cont'd)

Feature	Description	Value
Masonry Veneer	Primer	Use of primer is required over the StoVentec Carrier Board prior to application of (cementitious) StoPrimer/Adhesive Base Coat.
Masonry Veneer	Adhesive	StoKoll KM adhesive mortar, compliant with ANSI 118.4
Masonry Veneer	Thin Brick, Manufactured and Natural Stone Weight	15psf maximum (70 kg/m ²)
Masonry Veneer	Thin Brick Dimensions	≤44.5mm (1-3/4") thick, ≤ 914mm (36") in any face dimension and ≤0.465m ² (5 ft ²) in area.
Masonry Veneer	Thin Brick	Standards compliance and selection: comply with ASTM C1088, type suitable for environmental exposure, and as certified by manufacturer
Masonry Veneer	Manufactured Stone Dimensions	≤67mm (2-5/8") thick, ≤ 914mm (36") in any face dimension and ≤0.465m ² (5 ft ²) in area.
Masonry Veneer	Manufactured Stone	Standards compliance and selection: comply with ASTM C1670
Masonry Veneer	Grout/Pointing Mortar	ANSI 118.7 compliant portland cement-based grout. System must be grouted / pointed. Open joints are not permitted.

Table 1.3 - Testing & Listing Information

Feature	Description	Value
Listing	Fire Spread	NFPA 285, STO/CWP-30-01, CSI Section Numbers: 07 42 00 Wall Panels, 07 42 43 Composite Wall Panels.
Listing	Fire Spread	CAN / ULC S134, STO/CWP 25-02, CSI Section Numbers: 07 42 00 Wall Panels, 07 42 43 Composite Wall Panels
Product Evaluation	U.S. Building Codes Evaluation	Intertek CCRR-0454
Listing	Florida Product Approval	41659.1
Listing	Miami-Dade NoA	Product Control
Listing	National Technical Approval, Germany	DIBt Z-10-.3-700, - Ventilated Rainscreen Cladding Façade System with adhered thin veneers. (DIN 18516)
Listing	Fire Resistance of Wall Assemblies	ASTM E119, Engineering Judgment by Jensen Hughes Fire Protection Consultants, will maintain fire resistance rating of backup wall
Test	Water Penetration Resistance	AAMA 509, water penetration rating, Class W1
Test	Ventilation	AAMA 509, ventilation rating V9
Test	Wind Load Resistance (Ultimate wind load capacity)	ASTM E330, +/-7.66 kN/m ² (160 lb/ft ²)
Test	Masonry Veneer Adhesive: StoColl KM	Compliance with ANSI 118.4
Test	Masonry Veneer Adhesive Shear Bond	> 50psi (345kPa)

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Carrier Board Attachment 16" oc (-120psf) Ultimate Wind Load Capacity	90.M.004
Carrier Board Attachment 16" oc (-85psf) Ultimate Wind Load Capacity	90.M.005
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StoVentre Steel Brackets - Large (FP) and Small (GP) - Attachment Locations (Elevation/Plan)	90.Sc.046
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Scupper Penetration with Flashing and Open Joints	90.M.301
Scupper Penetration with Backer Rod and StoSeal STPE Sealant	90.M.302
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StoVentec® for Masonry Veneer Facades

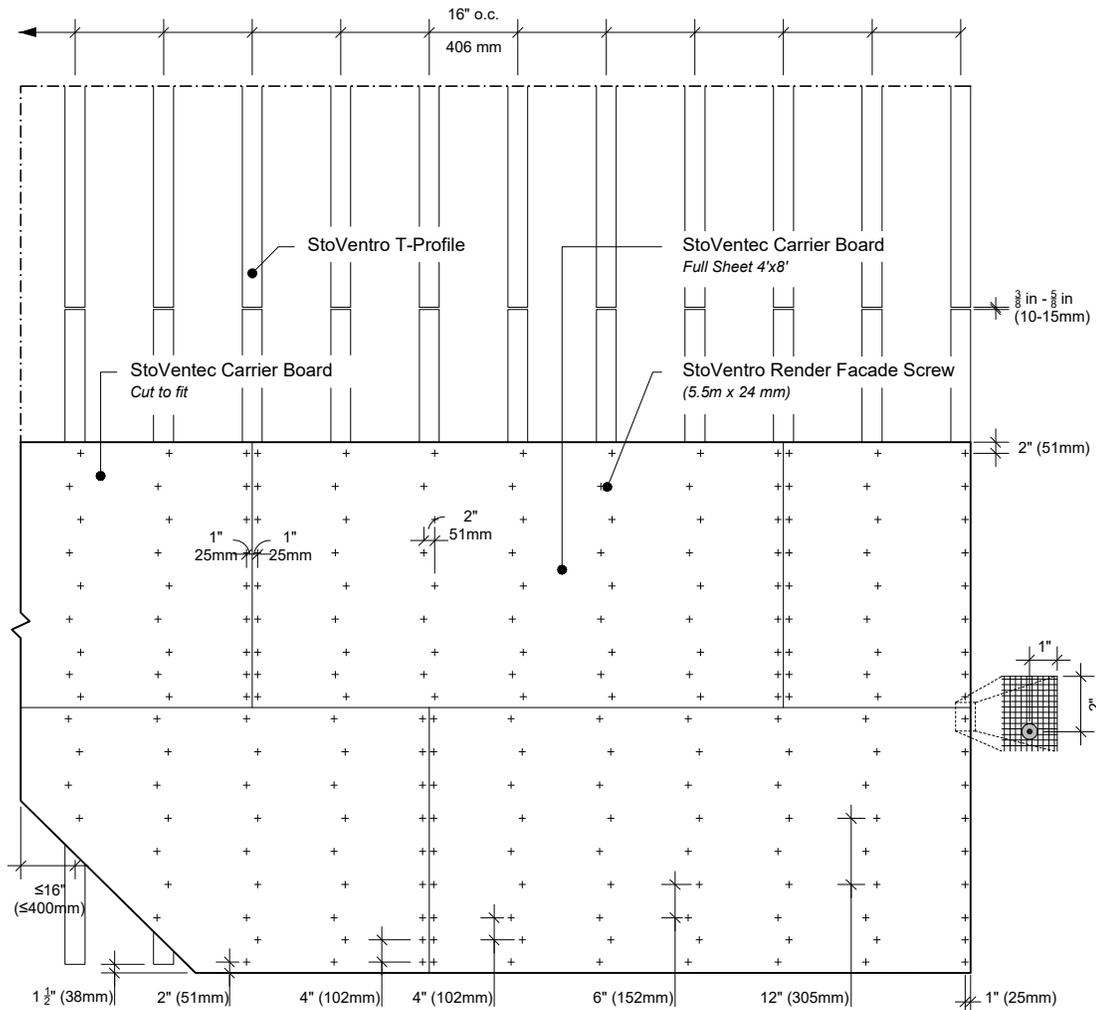
StoVentec Carrier Board Attachment to StoVentro™ T-Profile, spaced at 16" o.c.(406mm)
Field and Edge fastening of StoVentec Carrier Board to StoVentro T-Profiles.

Date: May 2025

Elevation View

Detail No.: 90.M.001

Ultimate Wind Load Capacity, based on ASTM E330 wind load testing:
-160 psf (7.66 kN/m²)



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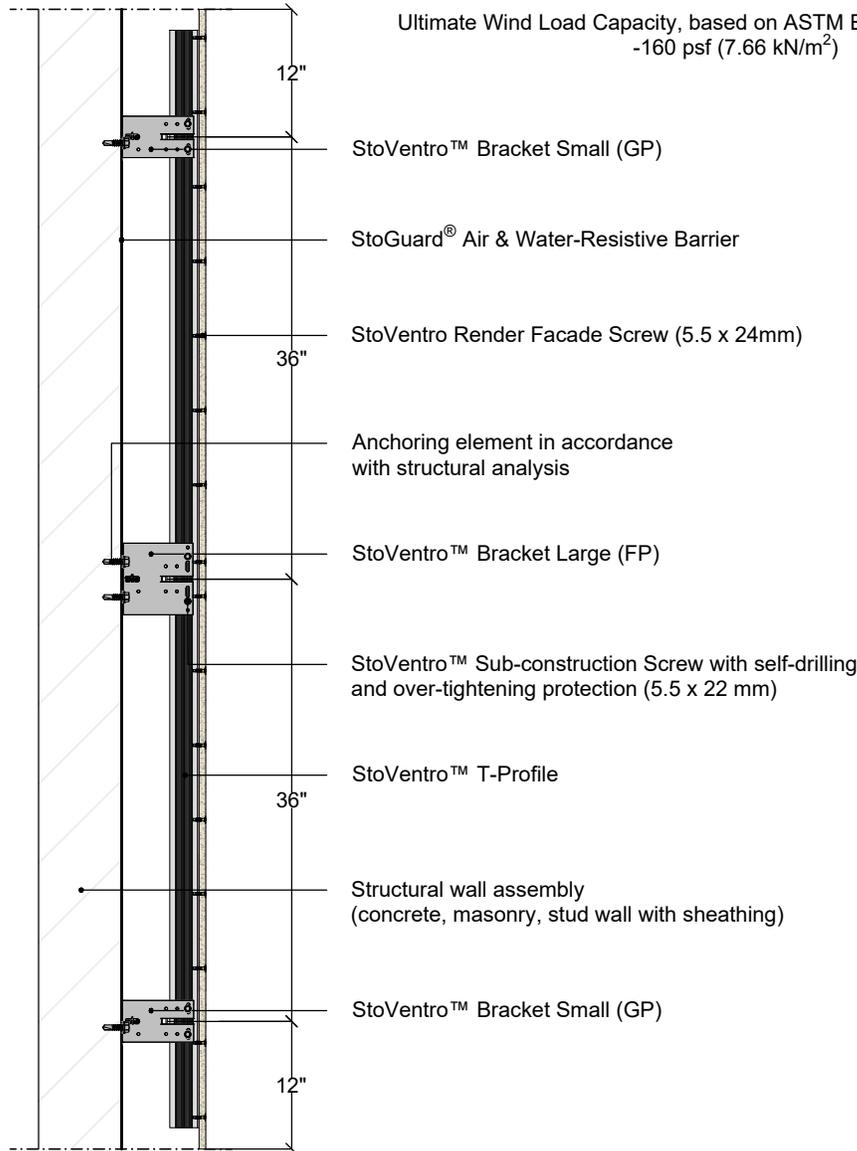
StoVentec[®] for Masonry Veneer Facades

StoVentro[™] Bracket Installation, spaced at 36" o.c. (914mm)

Date: May 2025

Section View

Detail No.: 90.M.002



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GENV-RC-SAR-0040



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StoVentec® for Masonry Veneer Facades (MVF)

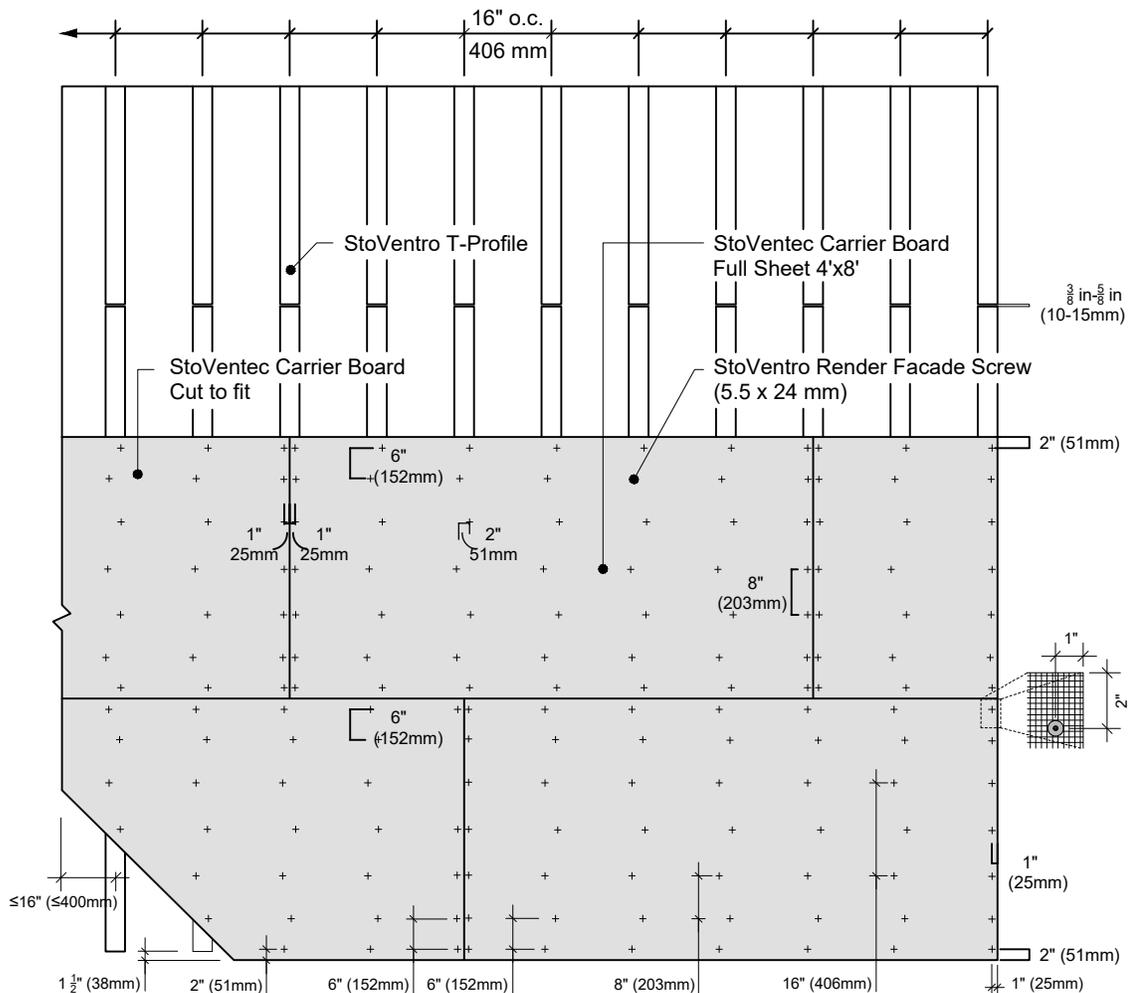
StoVentec Carrier Board (4x8 feet) Attachment (8 inch max. fastener spacing) to StoVentro™ T-Profile, spaced at 16" o.c.(406mm), Field and Edge fastening of StoVentec Carrier Board to StoVentro T-Profiles.

Elevation View

Date: October 2025

Detail No.: 90.M.004

Ultimate Wind Load Capacity, based on ASTM E330 wind load testing:
-120 psf (5.75 kN/m²)



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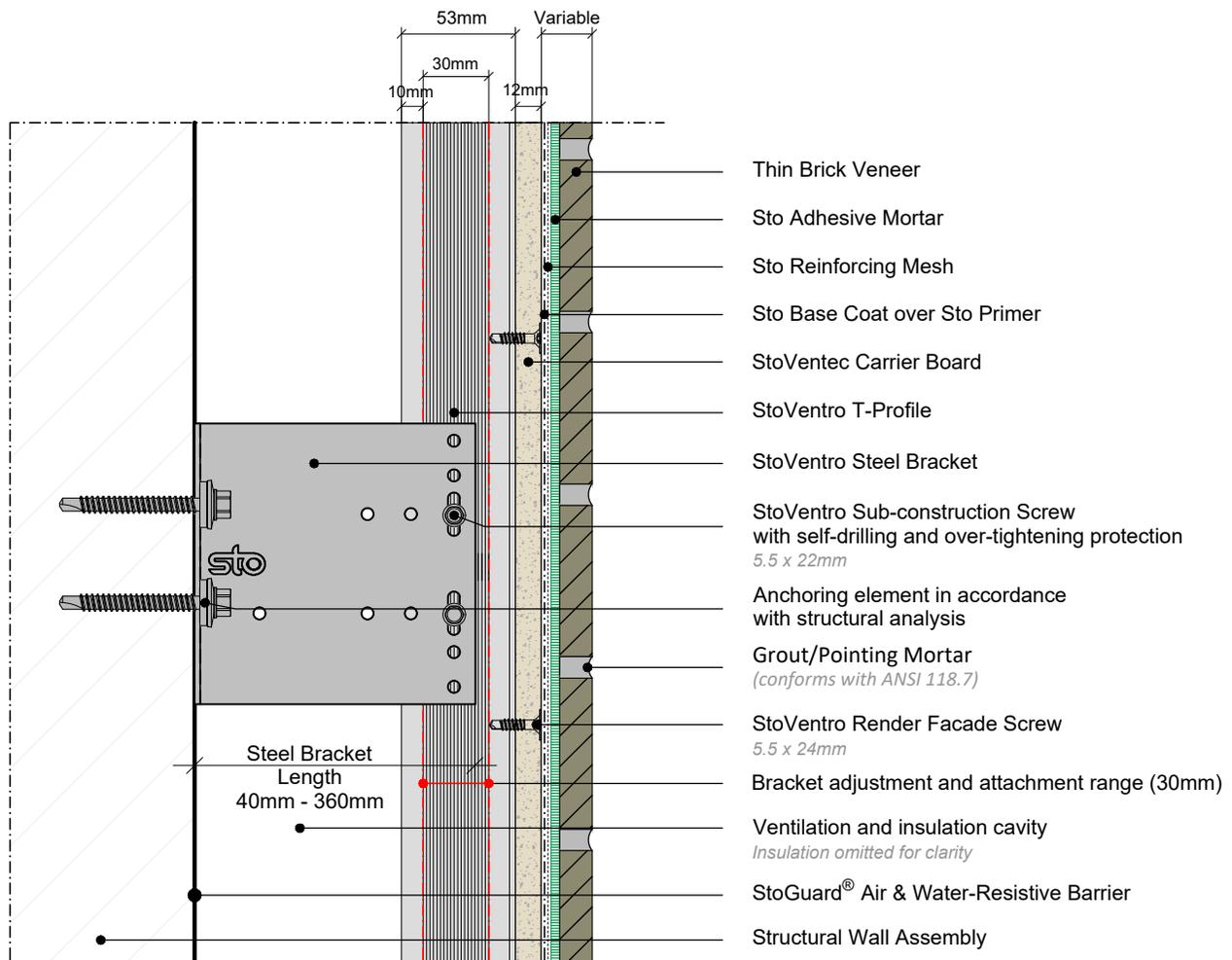
StoVentec® for Masonry Veneer Facades

System buildup with Thin Brick Veneer
Steel Brackets (Zn-Al-Mg coated or Stainless)

Section View

Date: October 2025

Detail No.: 90.M.020



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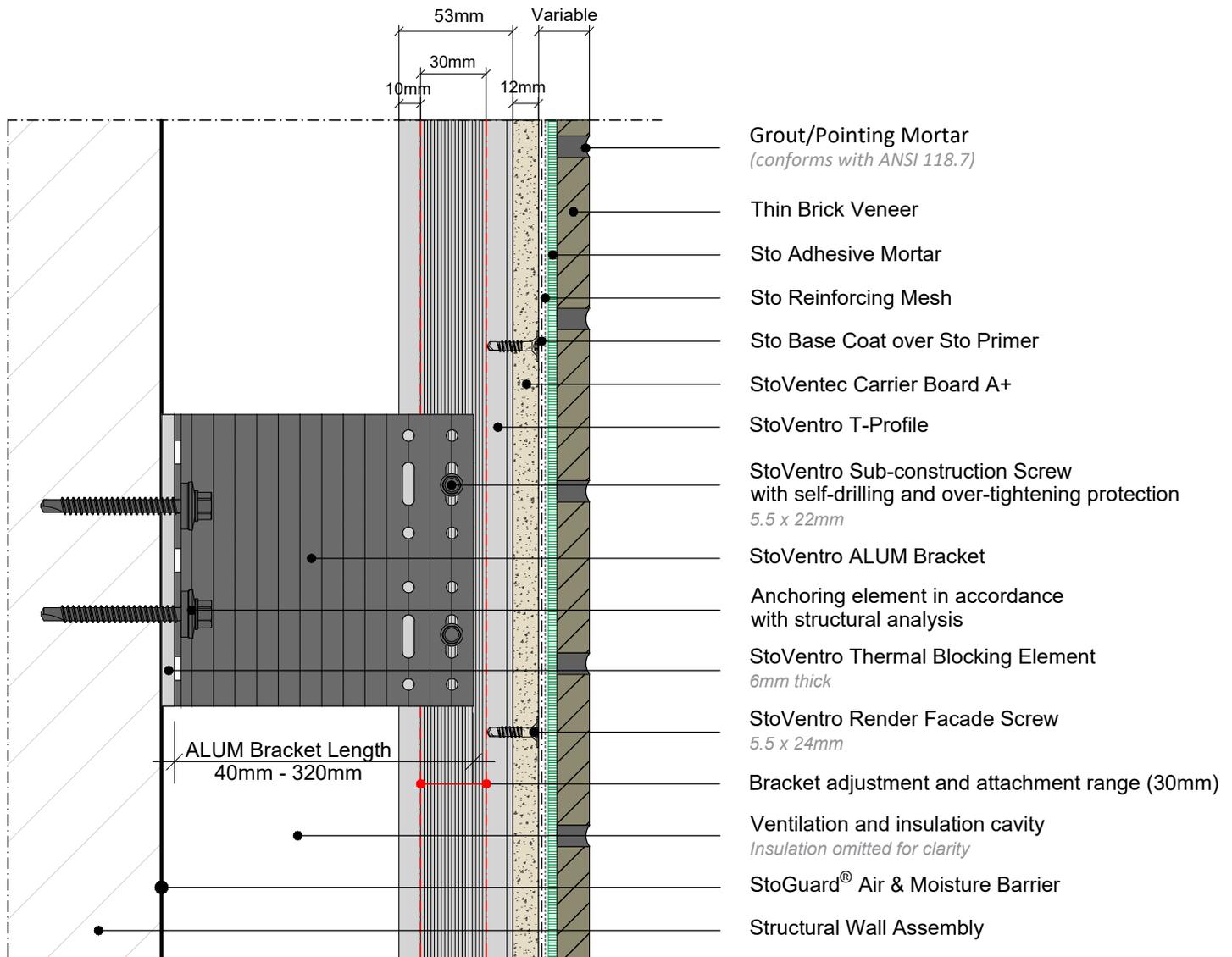
StoVentec® for Masonry Veneer Facades

System buildup with Thin Brick Veneer
Aluminum Brackets

Section View

Date: June 2021

Detail No.: 90.M.021



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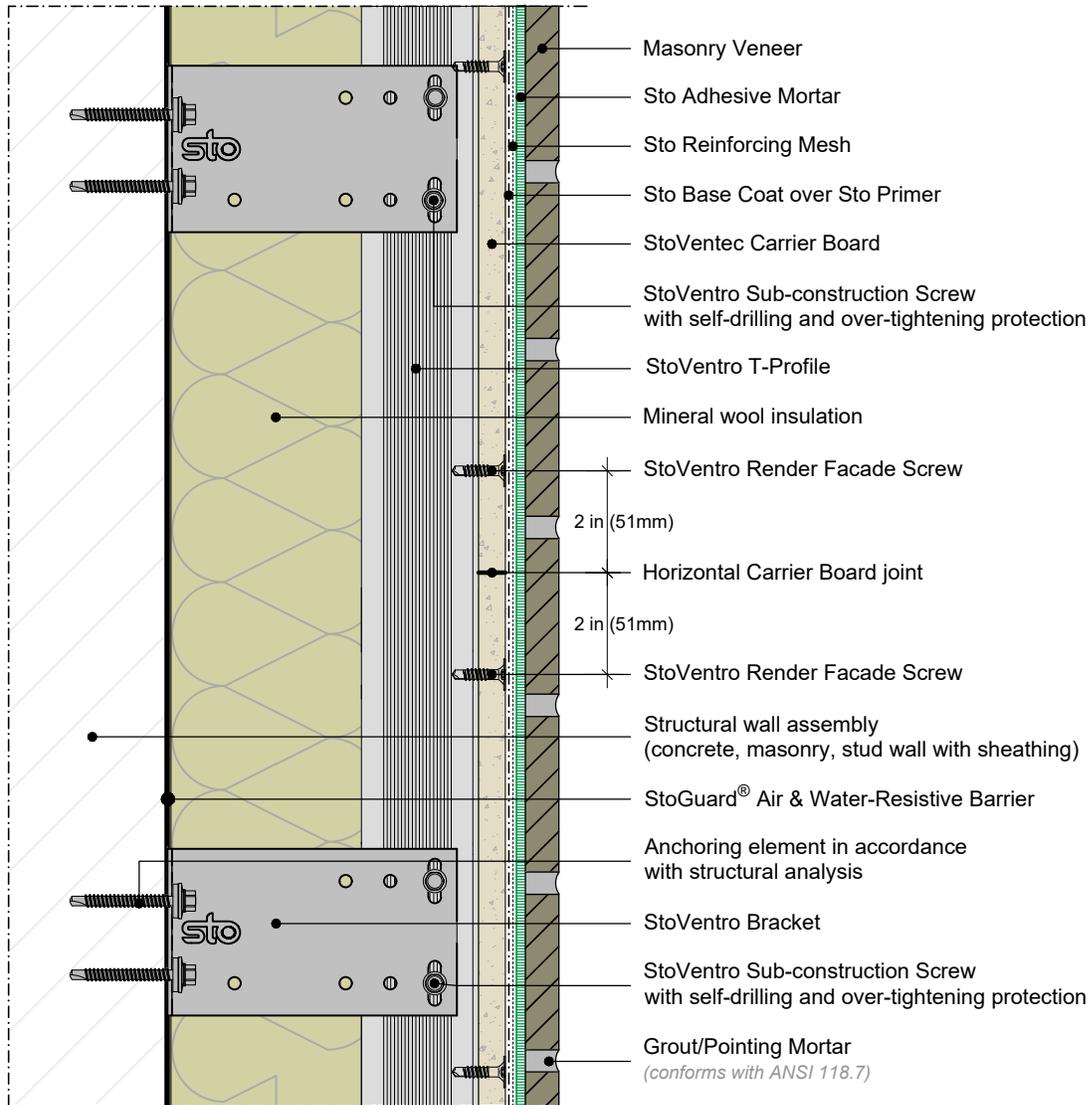
StoVentec® for Masonry Veneer Facades

StoVentec Carrier Board Installation at Horizontal Board Joint

Date: October 2025

Section View

Detail No.: 90.M.030



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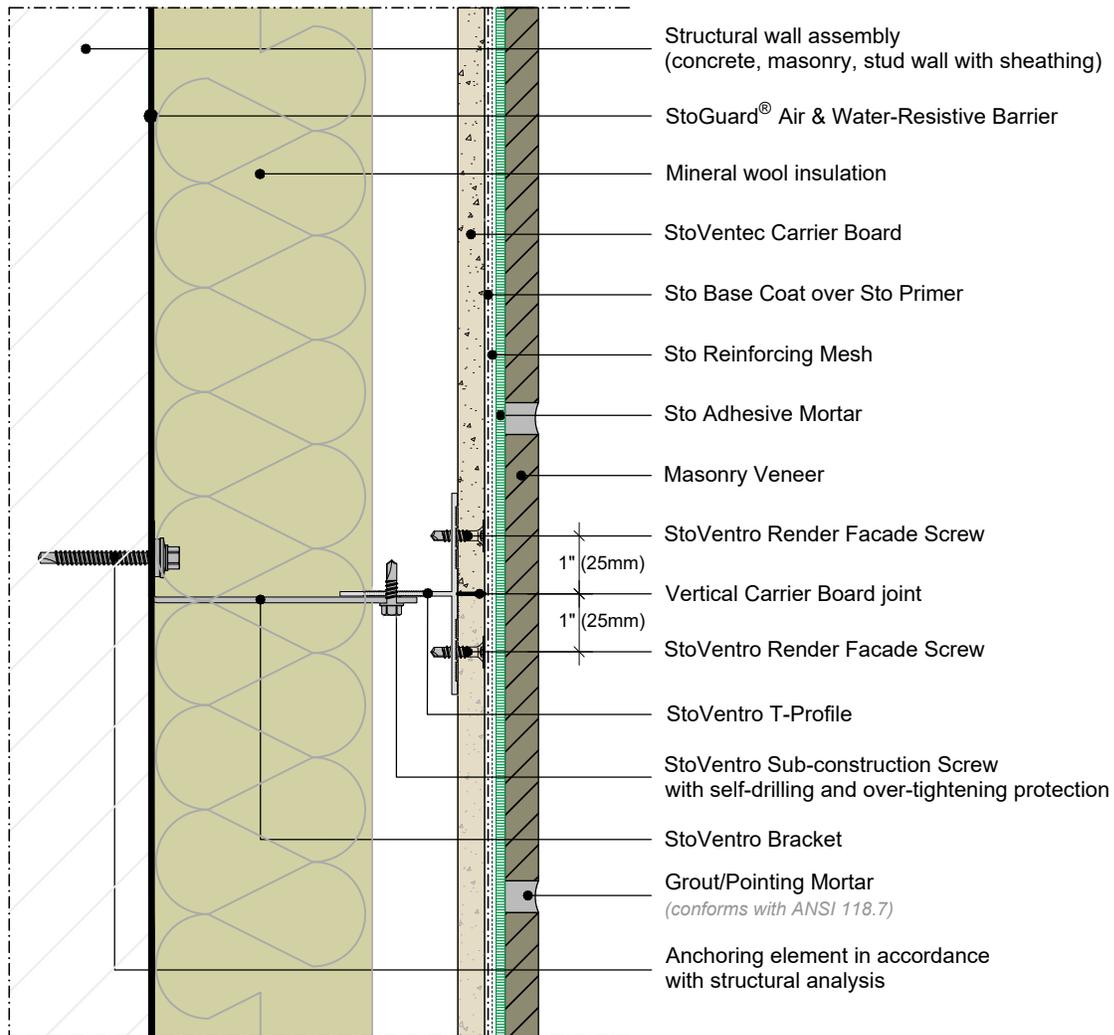
StoVentec® for Masonry Veneer Facades

StoVentec Carrier Board Installation at Vertical Board Joint

Date: October 2025

Plan View

Detail No.: 90.M.031



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StoVentec® for Masonry Veneer Facades

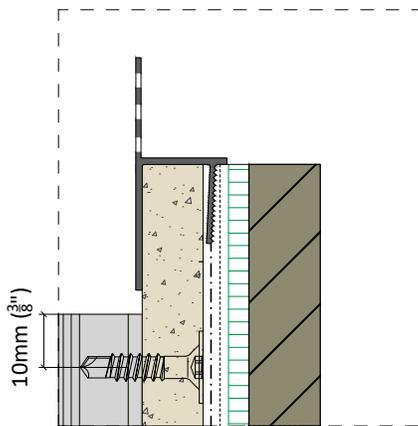
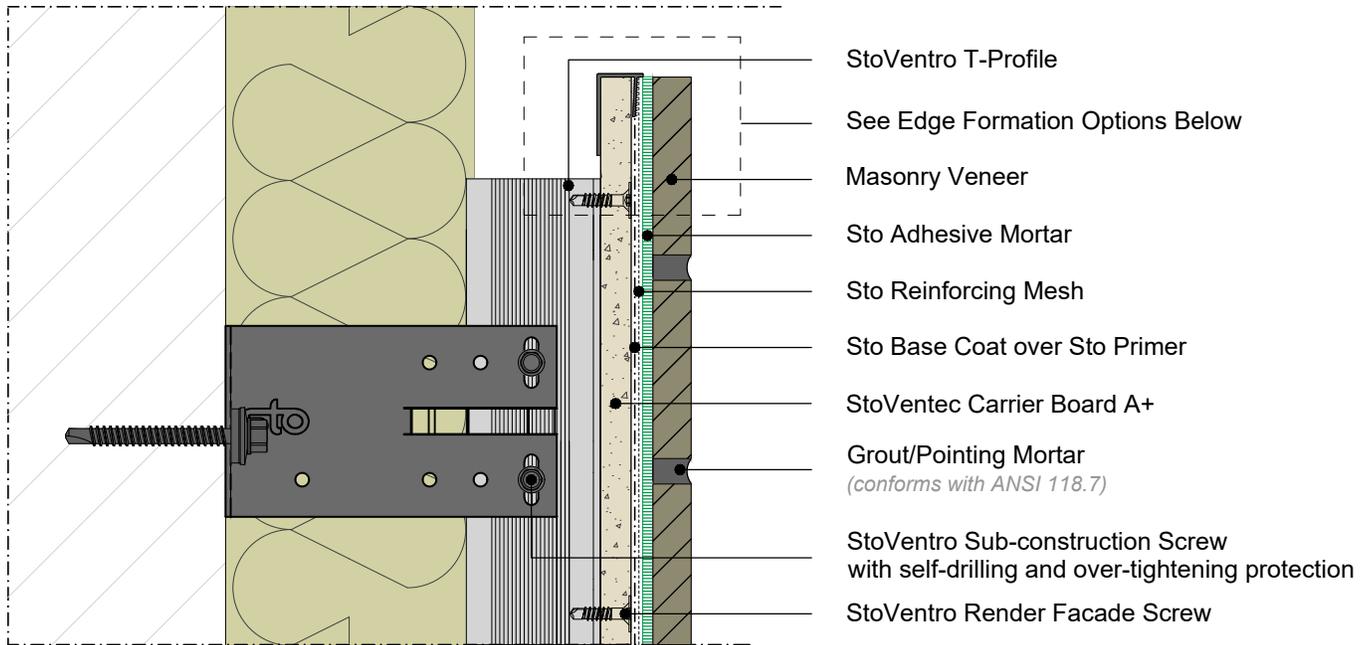
System edge formations with surrounding Sto Edge Protection Profiles
 Top edge formation, used only at non-weather exposed areas

Section View

Date: June 2021

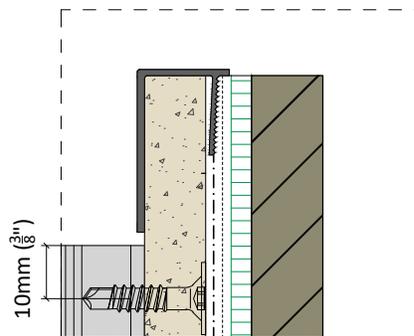
Detail No.: 90.M.035

For bottom edge formation, see detail 90.M.036
 For side edge formation, see detail 90.M.037



Sto Roof Vent Profile

*Typically used at top of system, soffits,
sills with flashing*



Sto Edge Protection Profile G

*Typically used at top of system, soffits,
sills with flashing*

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StoVentec® for Masonry Veneer Facades

System edge formations with surrounding Sto Edge Protection Profiles

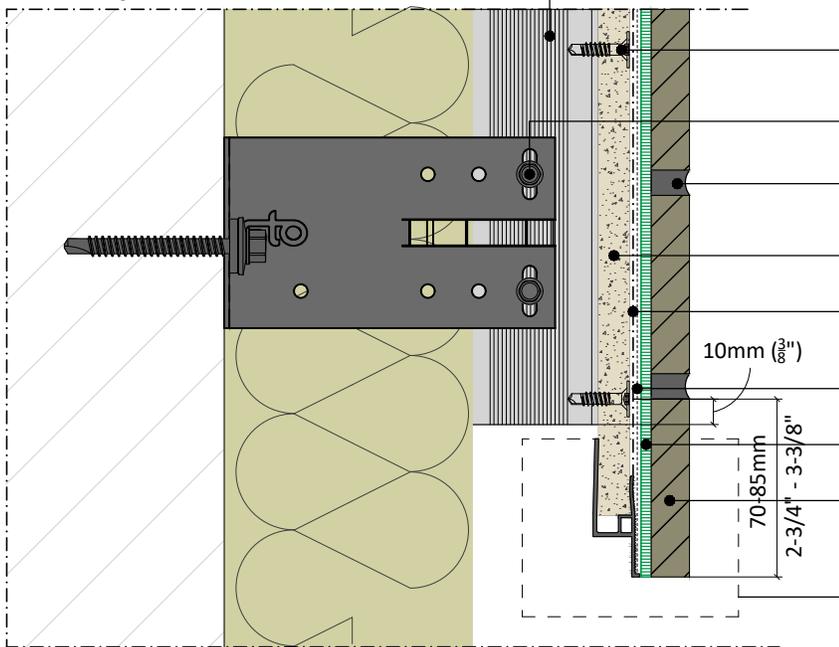
Bottom edge formation

Section View

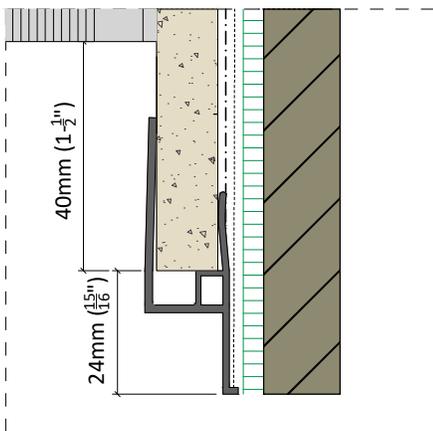
Date: June 2021

Detail No.: 90.M.036

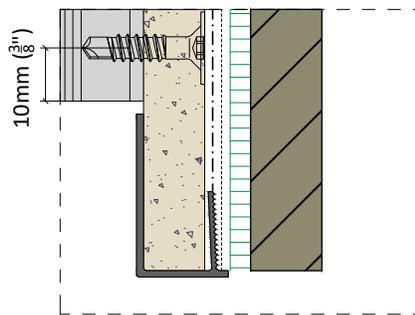
For top edge formation, see detail 90.M.035
 For side edge formation, see detail 90.M.037



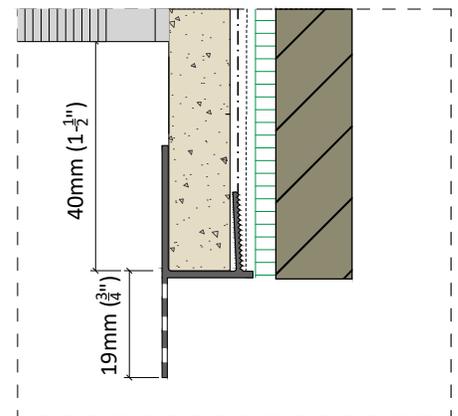
- StoVentro T-Profile
- StoVentro Render Facade Screw
- StoVentro Sub-construction Screw with self-drilling and over-tightening protection
- Grout/Pointing Mortar (conforms with ANSI 118.7)
- StoVentec Carrier Board A+
- Sto Base Coat over Sto Primer
- 10mm (3/8")
- Sto Reinforcing Mesh
- Sto Adhesive Mortar
- Masonry Veneer
- 70-85mm
- 2-3/4" - 3-3/8"
- See Edge Formation Options Below



Sto Edge Protection Profile GT
 Typically used at bottom edge of expansion joints and bottom of system



Sto Edge Protection Profile G
 Typically used at bottom edge of expansion joints and bottom of system



Sto Roof Vent Profile
 Typically used at bottom of system

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StoVentec® for Masonry Veneer Facades

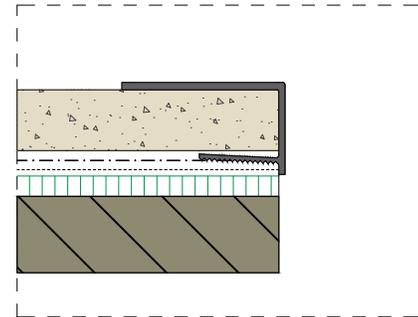
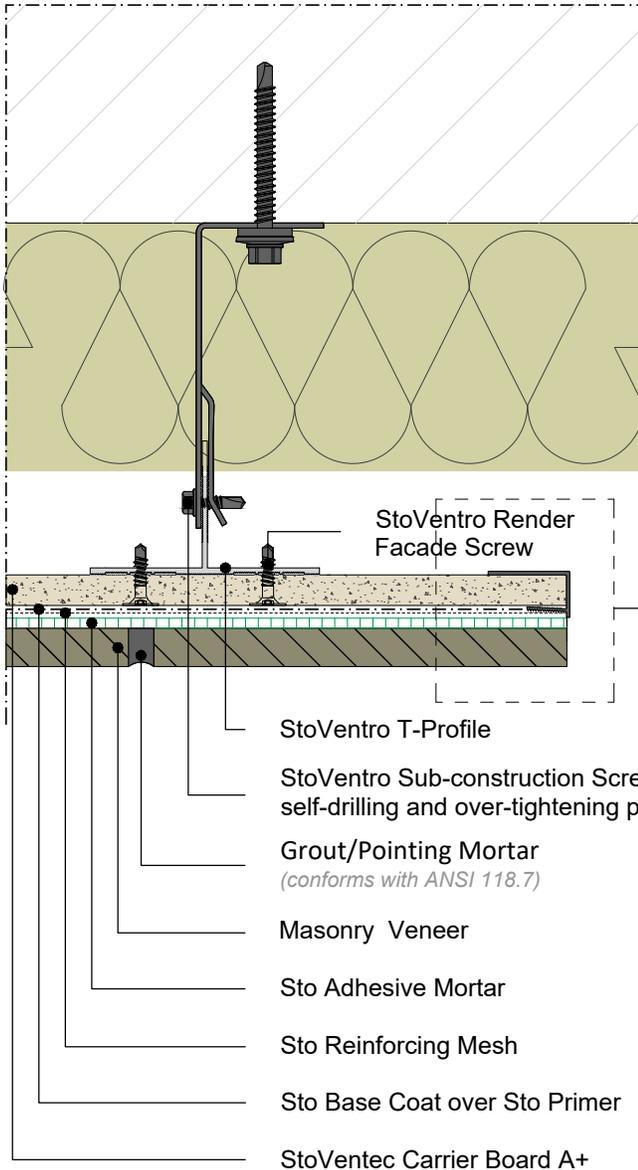
System edge formations with surrounding Sto Edge Protection Profiles
 Side edge formation, used only at non-weather exposed areas

Plan View

Date: June 2021

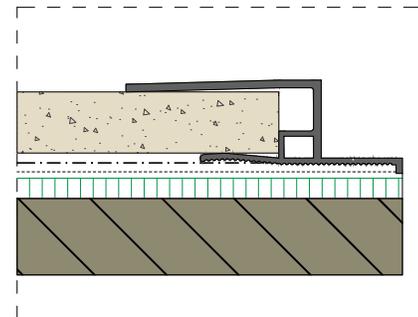
Detail No.: 90.M.037

For top edge formation, see detail 90.M.035
 For bottom edge formation, see detail 90.M.036



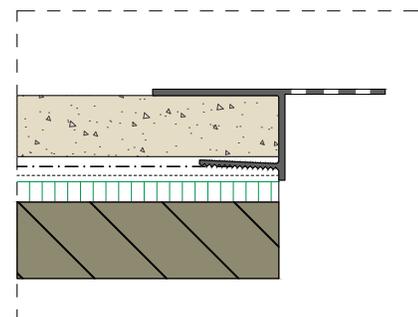
Sto Edge Protection Profile G

Typically used at inside corners and window jambs



Sto Edge Protection Profile GT

Typically used at inside corners and window jambs



Sto Roof Vent Profile

Typically used at inside corners and window jambs

See Edge Formation Options

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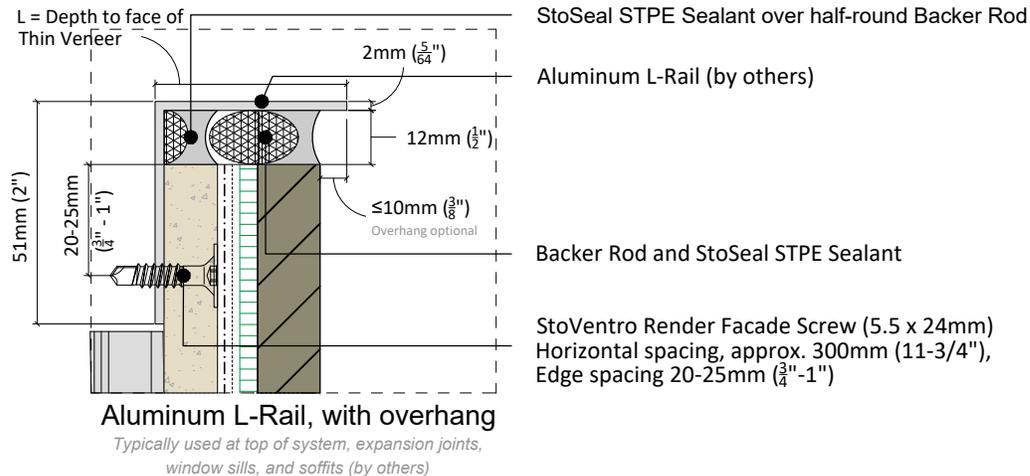
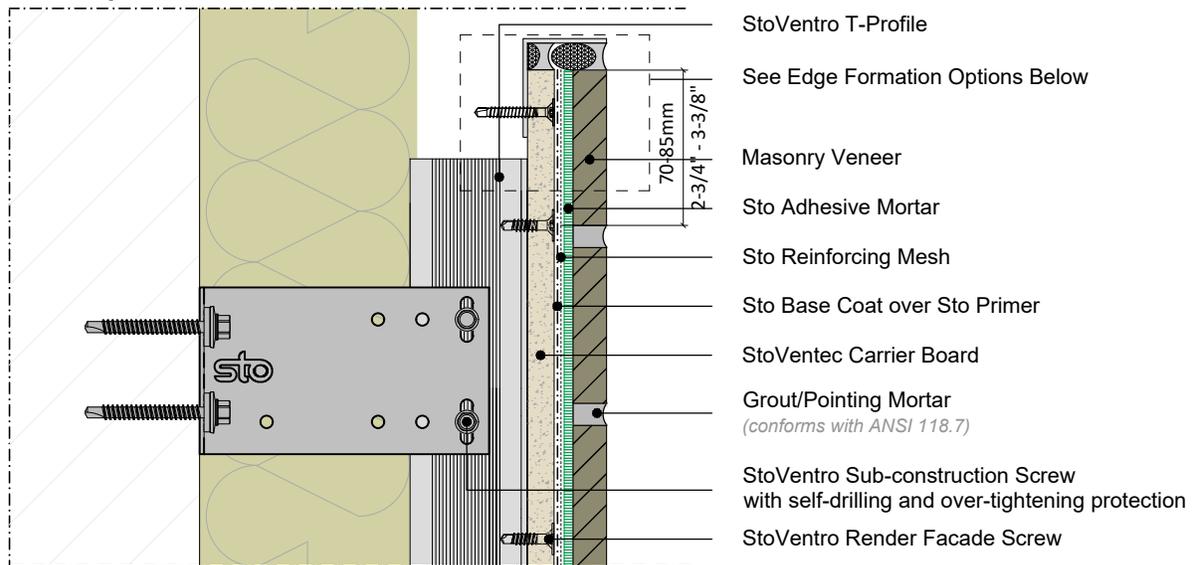
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StoVentec® for Masonry Veneer Facades
 System edge formations with surrounding aluminum
 Top edge formation with StoSeal STPE
 Section View

Date: October 2025

Detail No.: 90.M.040

For bottom edge formation, see detail 90.M.041
 For side edge formation, see detail 90.M.042



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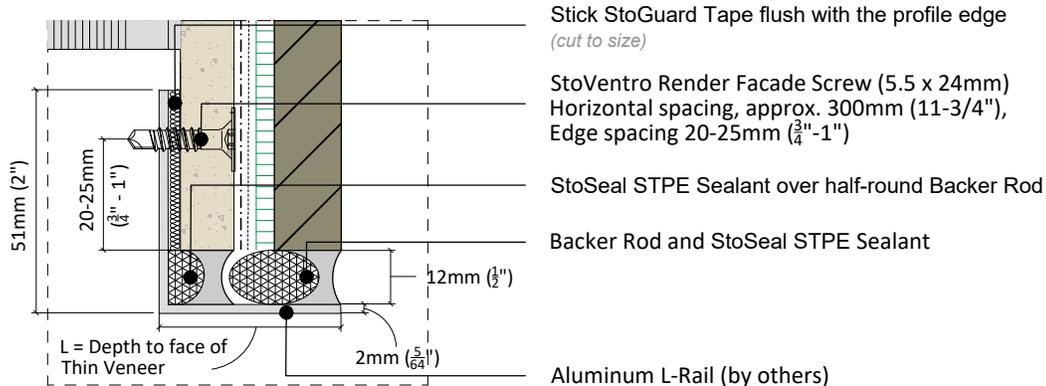
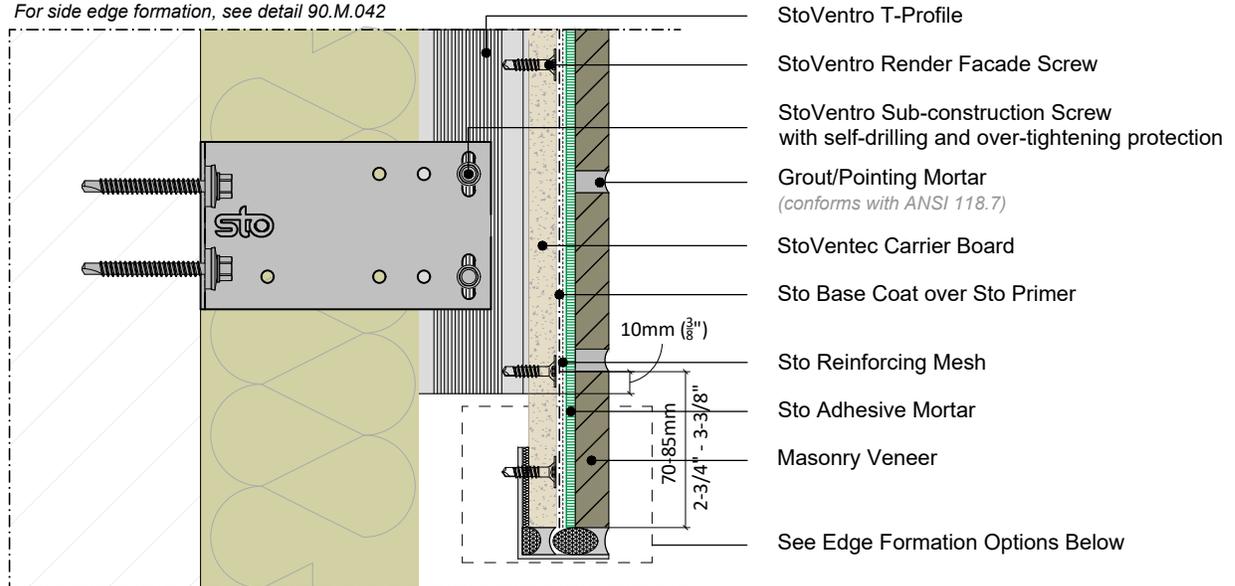
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StoVentec® for Masonry Veneer Facades
 System edge formations with surrounding aluminum
 Bottom edge formation with StoSeal STPE
 Section View

Date: October 2025

Detail No.: 90.M.041

For top edge formation, see detail 90.M.040
 For side edge formation, see detail 90.M.042



Aluminum L-Rail

Typically used at bottom edge of expansion joints,
 bottom of system, window heads, and soffits (by others)

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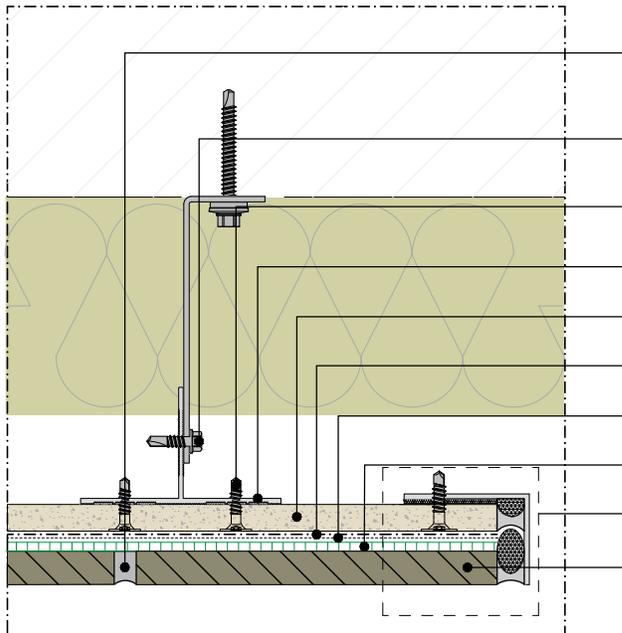
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StoVentec® for Masonry Veneer Facades
 System edge formations with surrounding aluminum
 Side edge formation with StoSeal STPE
 Plan View

Date: October 2025

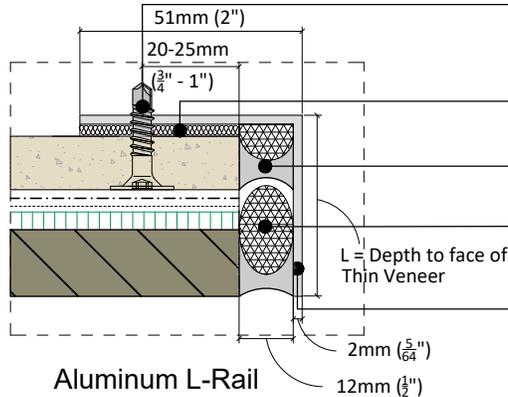
Detail No.: 90.M.042

For top edge formation, see detail 90.M.040
 For bottom edge formation, see detail 90.M.041



- Grout/Pointing Mortar
(conforms with ANSI 118.7)
- StoVentro Sub-construction Screw with self-drilling and over-tightening protection
- StoVentro Render Facade Screw
- StoVentro T-Profile
- StoVentec Carrier Board
- Sto Base Coat over Sto Primer
- Sto Reinforcing Mesh
- Sto Adhesive Mortar
- See Edge Formation Options
- Masonry Veneer

StoVentro Render Facade Screw (5.5 x 24mm)
 Vertical spacing, approx. 300mm (11-3/4"),
 Edge spacing 20-25mm (¾"-1")



- Stick StoGuard Tape flush with the profile edge
(cut to size)
- StoSeal STPE Sealant over half-round Backer Rod
- Backer Rod and StoSeal STPE Sealant
- Aluminum L-Rail (by others)

Aluminum L-Rail

Typically used at side edge of expansion joints,

side edge of system, window jambs, and inside corners (by others)

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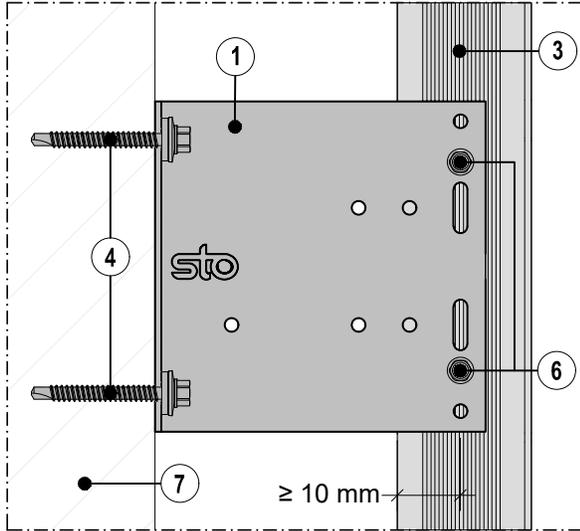
StoVentro™ Sub-Construction System

StoVentro™ Steel Brackets - Large (FP) and Small (GP), with attachment locations for fixed points and sliding points

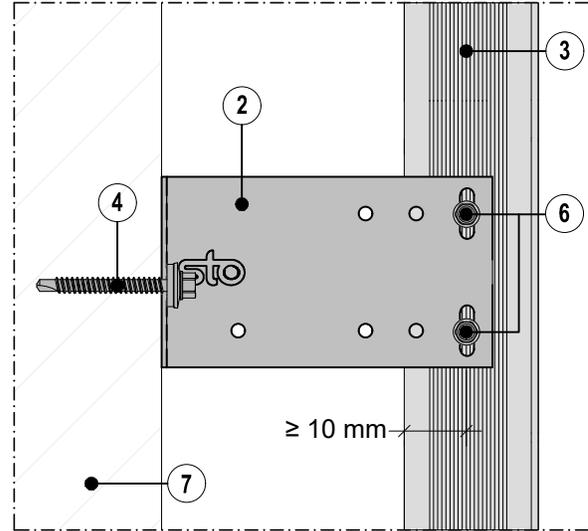
Section View

Date: January 2024

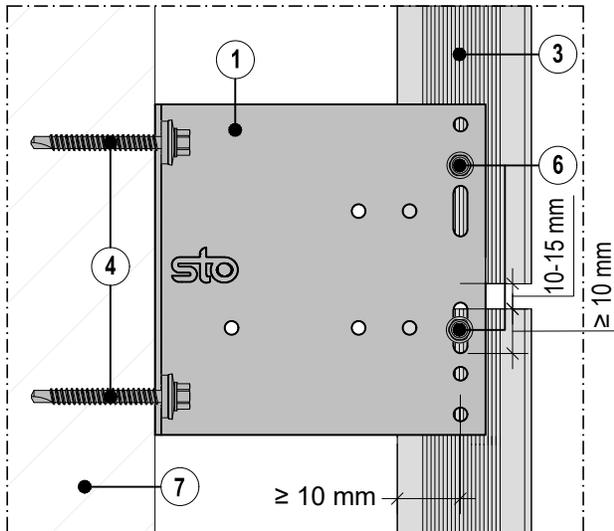
Detail No.: 90.Sc.045



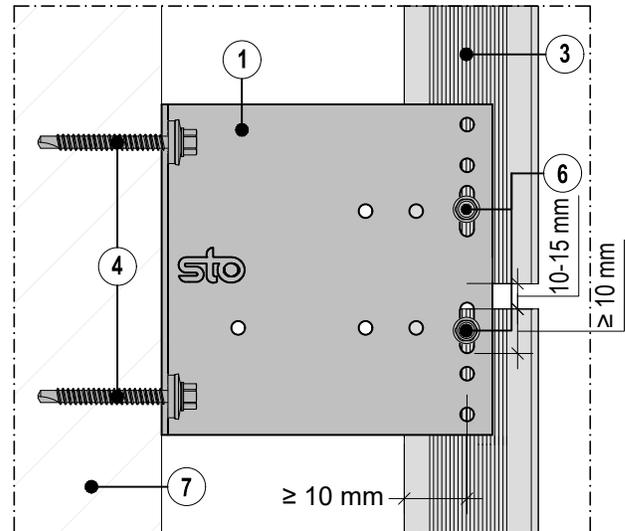
StoVentro™ Bracket - Large (FP) | Fixed point fastening



StoVentro™ Bracket - Small (GP) | Sliding point fastening



StoVentro™ Bracket - Large (FP) | Fixed & sliding point fastening



StoVentro™ Bracket - Large (FP) | Sliding point fastening

① StoVentro™ Steel Bracket Large (FP)

③ StoVentro™ T-Profile

⑥ StoVentro™ Sub-construction Screw with self-drilling and over-tightening protection (5.5 x 22 mm)

② StoVentro™ Steel Bracket Small (GP)

④ Anchoring element in accordance with structural analysis

⑦ Structural wall assembly (concrete, masonry, stud wall with sheathing)

ATTENTION

Note: All values are subject to structural analysis.

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StoVentro™ Sub-Construction System

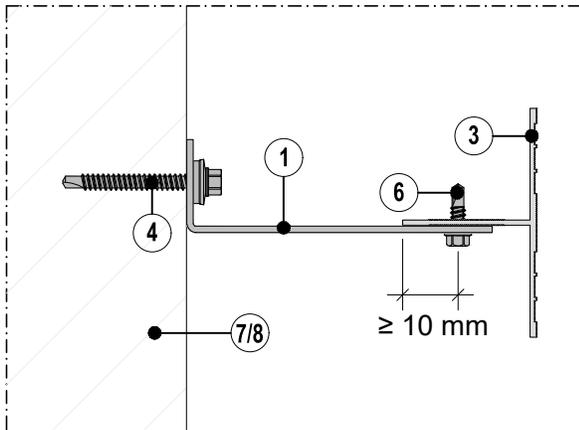
StoVentro™ Steel Brackets - Large (FP) and Small (GP) attachment locations

Elevation & Plan Views

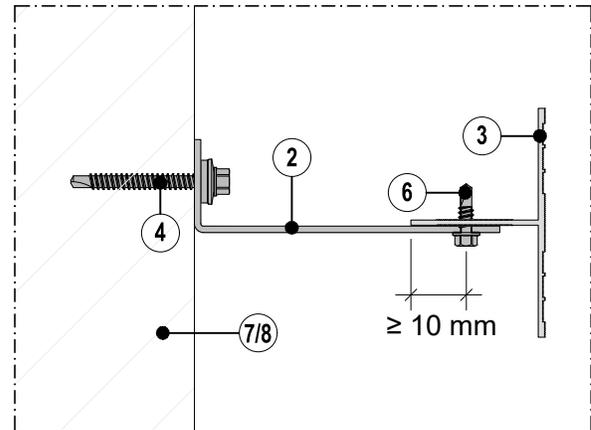
Date: January 2024

Detail No.: 90.Sc.046

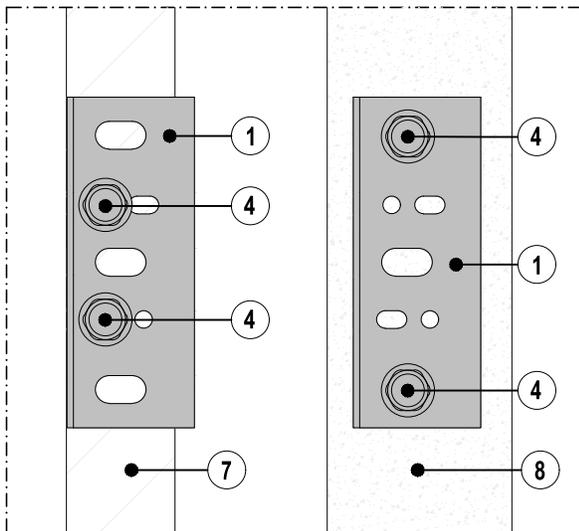
Note: All values are subject to structural analysis.



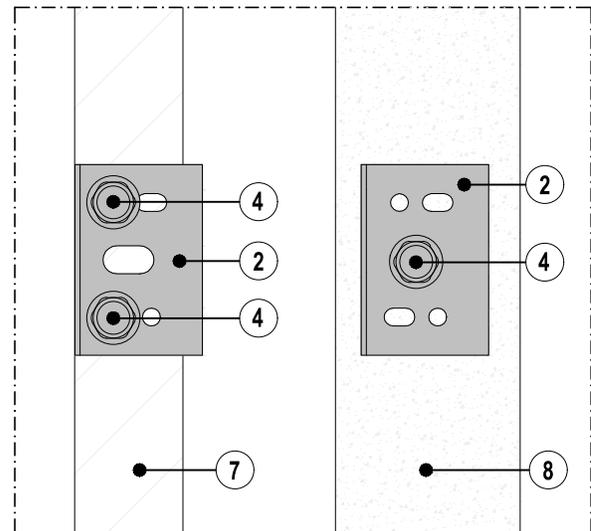
StoVentro™ Bracket - Large (FP)
Plan View Attachment



StoVentro™ Bracket - Small (GP)
Plan View Attachment



StoVentro™ Bracket - Large (FP)
Elevation View Attachment



StoVentro™ Bracket - Small (GP)
Elevation View Attachment

① StoVentro™ Steel Bracket Large (FP)

③ StoVentro™ T-Profile

⑥ StoVentro™ Sub-construction Screw with self-drilling and over-tightening protection (5.5 x 22 mm)

② StoVentro™ Steel Bracket Small (GP)

④ Anchoring element in accordance with structural analysis

⑦ Structural wall assembly (stud wall with sheathing)

⑧ Structural wall assembly (concrete and masonry)

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StoVentec® for Masonry Veneer Facades

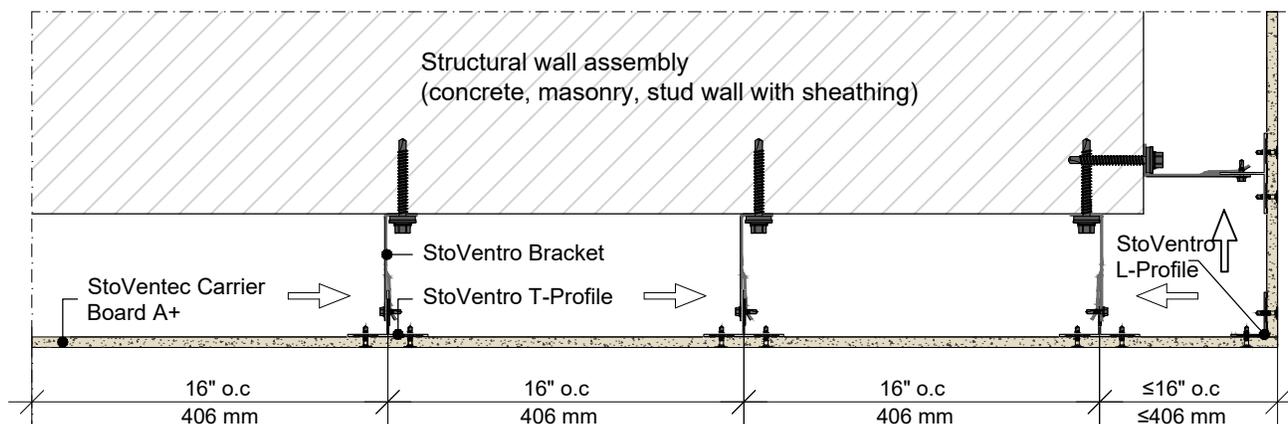
StoVentro™ Sub-construction Installation at outside corners, jambs, returning transitions, and transitions to alternative cladding

Plan View

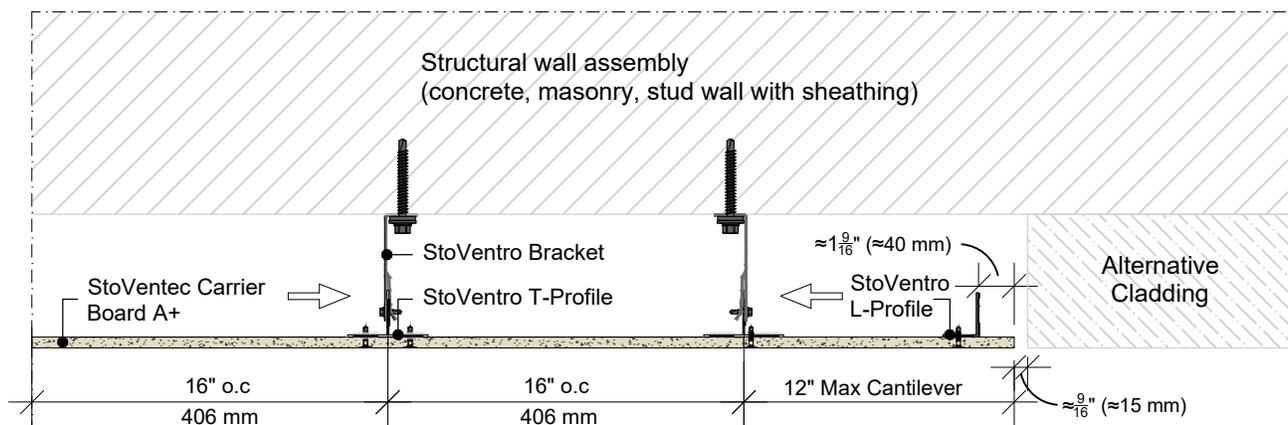
Date: June 2021

Detail No.: 90.M.049

⇒ Recommended fastening direction for connection of the StoVentro™ Wall Brackets to the StoVentro™ T-profile and alignment of the wall brackets



1 StoVentro™ Wall Brackets and T-Profile alignment and requirements at outside corners, jambs and returning transitions.



2 StoVentro™ Wall Brackets, T-Profiles, and L-Profile alignment and requirements at returning transitions and transitions to alternative cladding

Cantilever	L-Profile Required	Rated wind resistance [psf]	Rated wind resistance [kN/m ²]
6 in (154mm)	No	68.9	3.3
8 in (200mm)	Yes	81.4	3.9
12 in (300mm)	Yes	50.1	2.4

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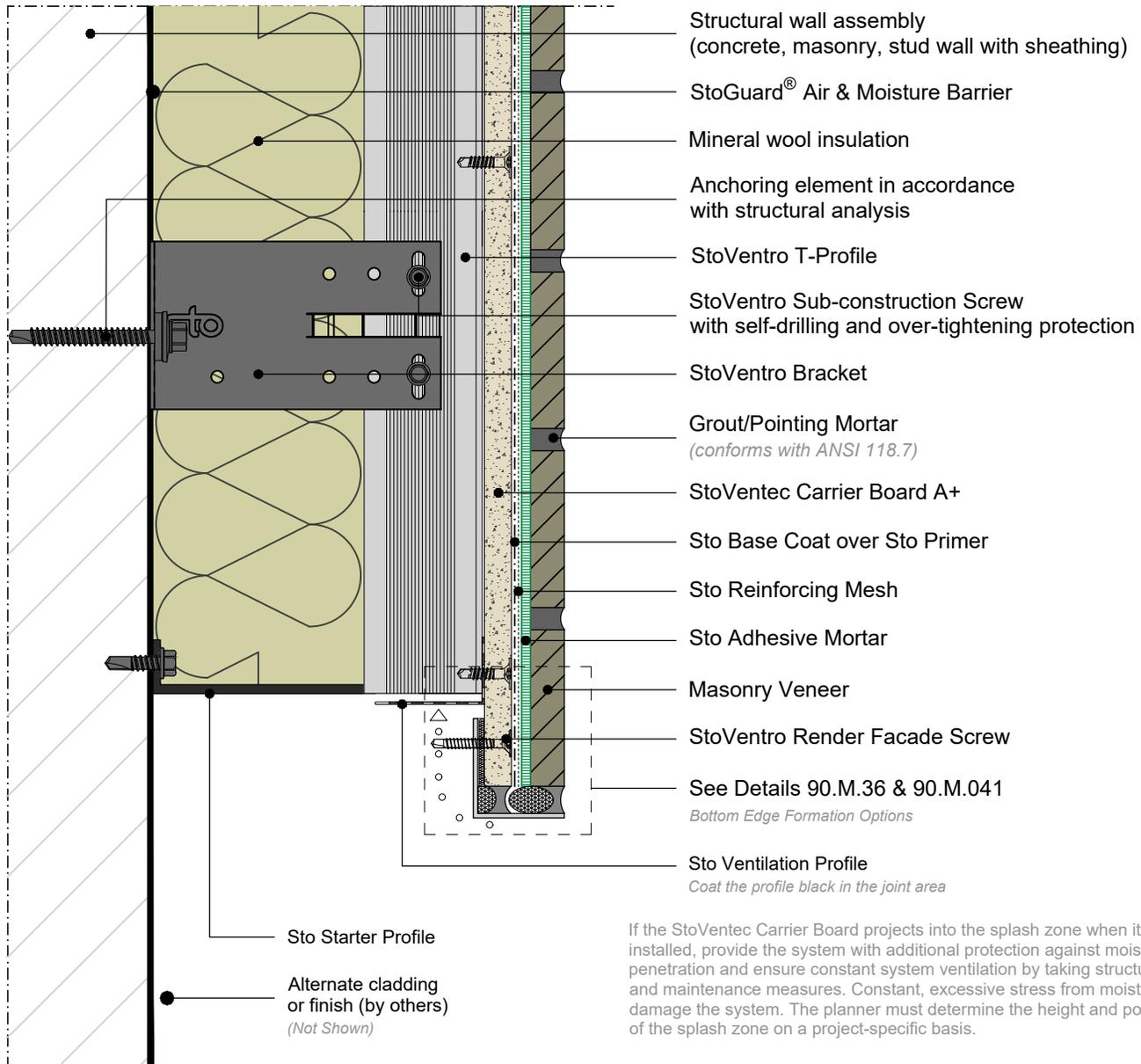
StoVentec® for Masonry Veneer Facades

Installation at grade with Sto Ventilation Profile, uninsulated
(exposed substrate at grade)

Section View

Date: June 2021

Detail No.: 90.M.055



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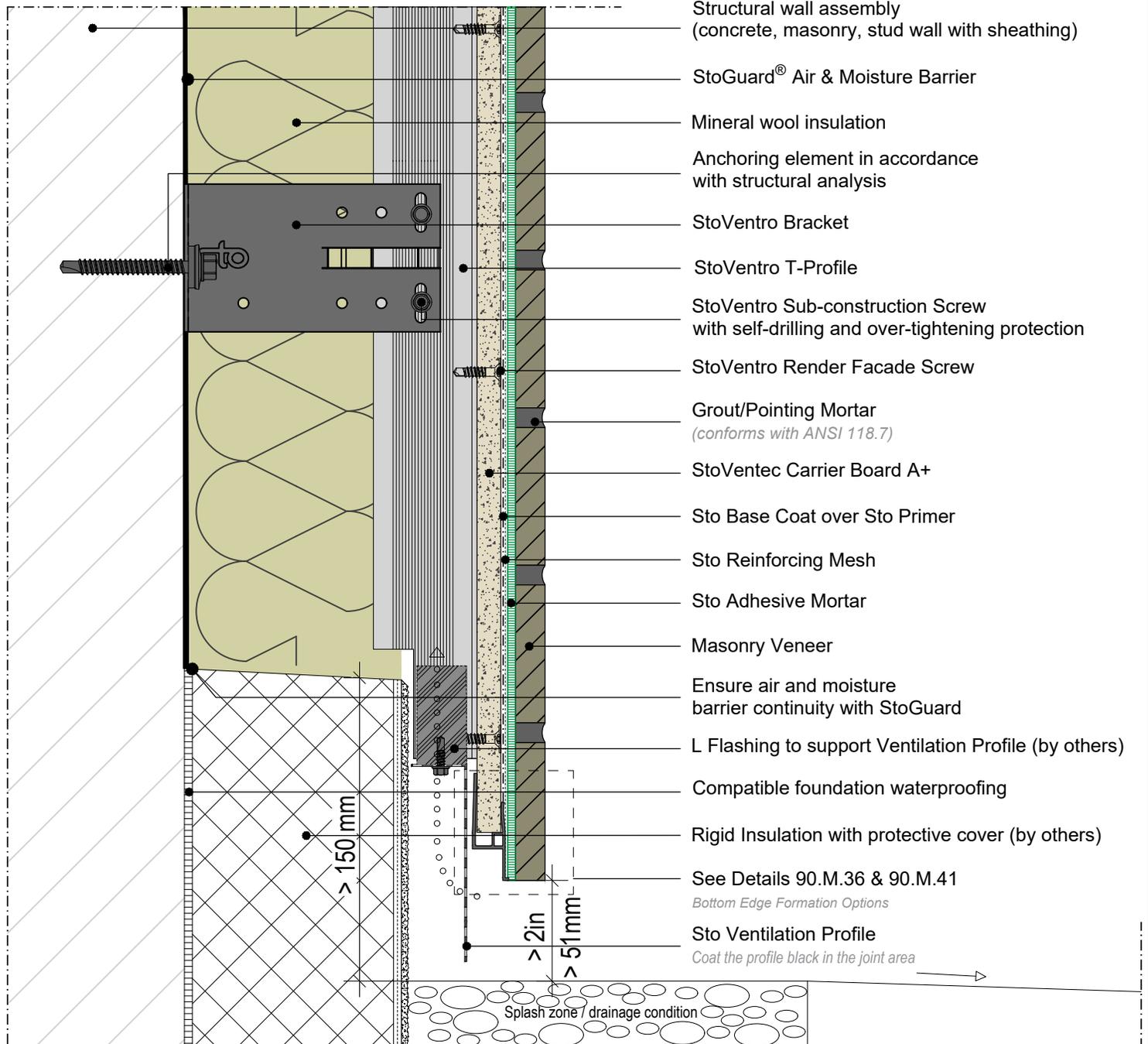
StoVentec® for Masonry Veneer Facades

Installation at grade with Sto Ventilation Profile, insulated

Date: June 2021

Detail No.: 90.M.065

Section View


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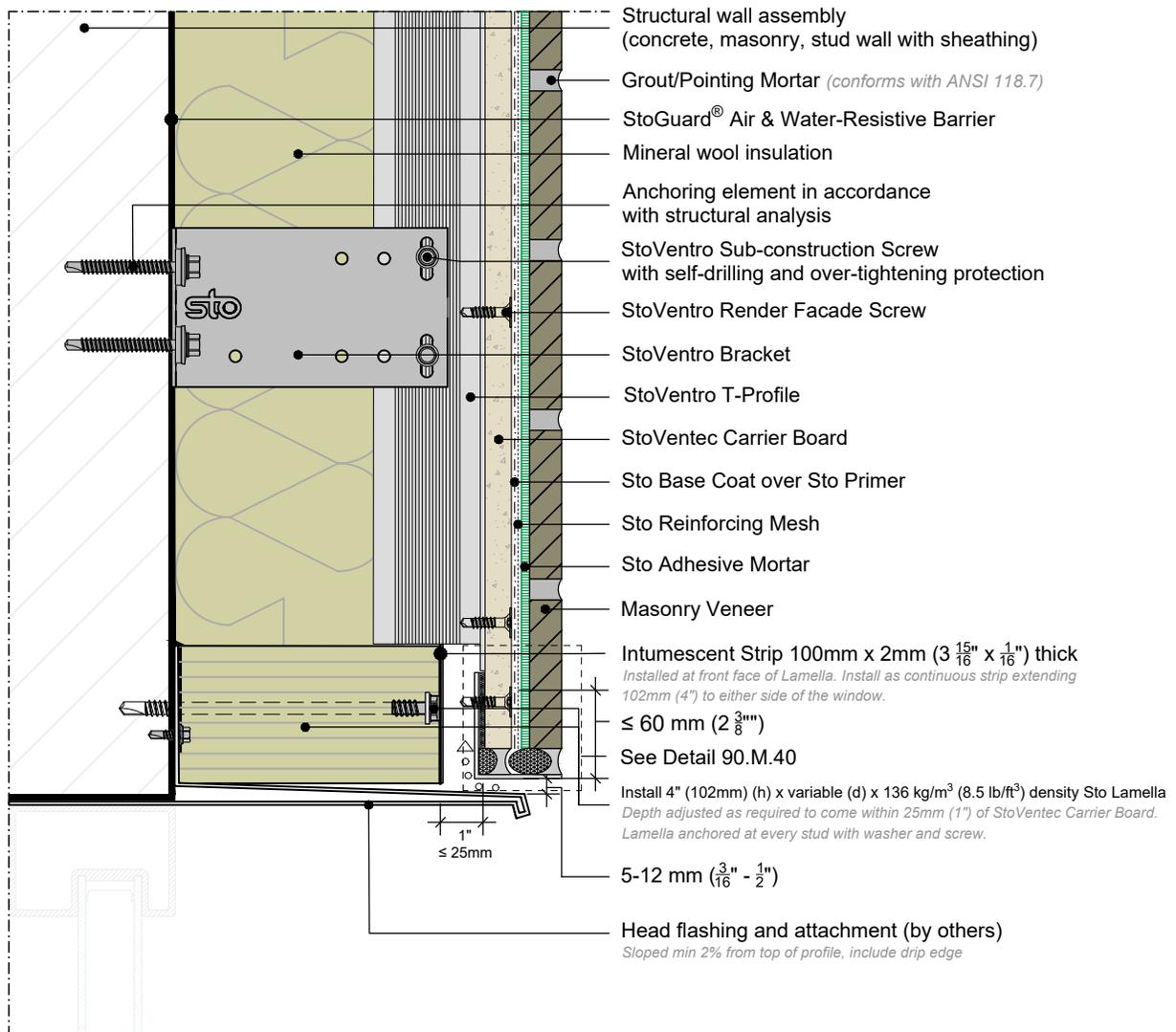
StoVentec® for Masonry Veneer Facades

Fire protection at Window Head with Sto Lamella and Intumescent Tape
 CAN ULC S134 Compliant, Intertek Design Listing No. STO/CWP 25-01
 NFPA 285 Compliant, Intertek Design Listing No. STO/CWP 30-02

Section View

Date: October 2025

Detail No.: 90.M.080



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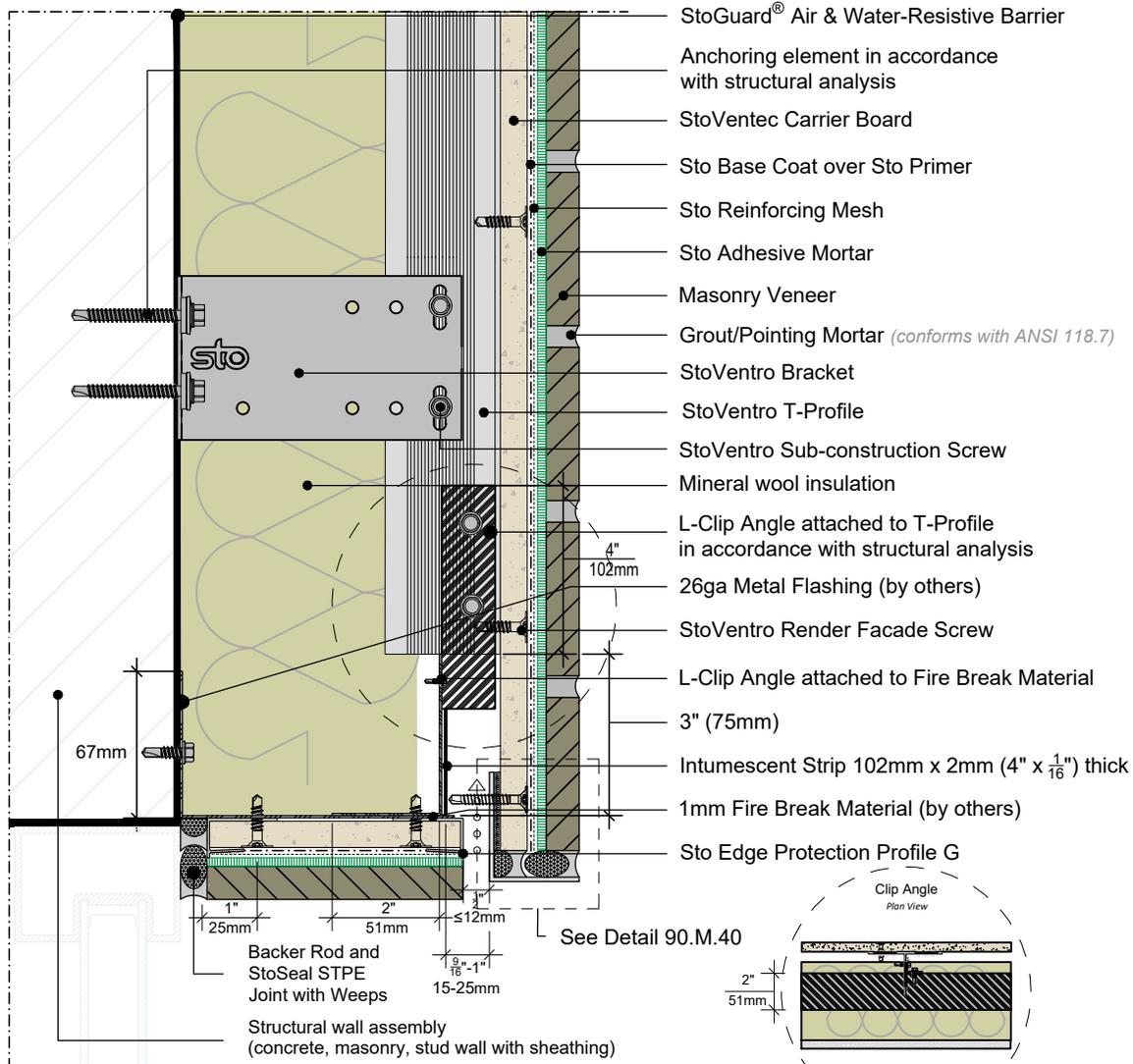
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StoVentec® for Masonry Veneer Facades

Fire protection at Window Head with Fire Break Material
 CAN ULC S134 Compliant, Intertek Design Listing No. STO/CWP 25-01
 NFPA 285 Compliant, Intertek Design Listing No. STO/CWP 30-02
 Section View

Date: October 2025

Detail No.: 90.M.081



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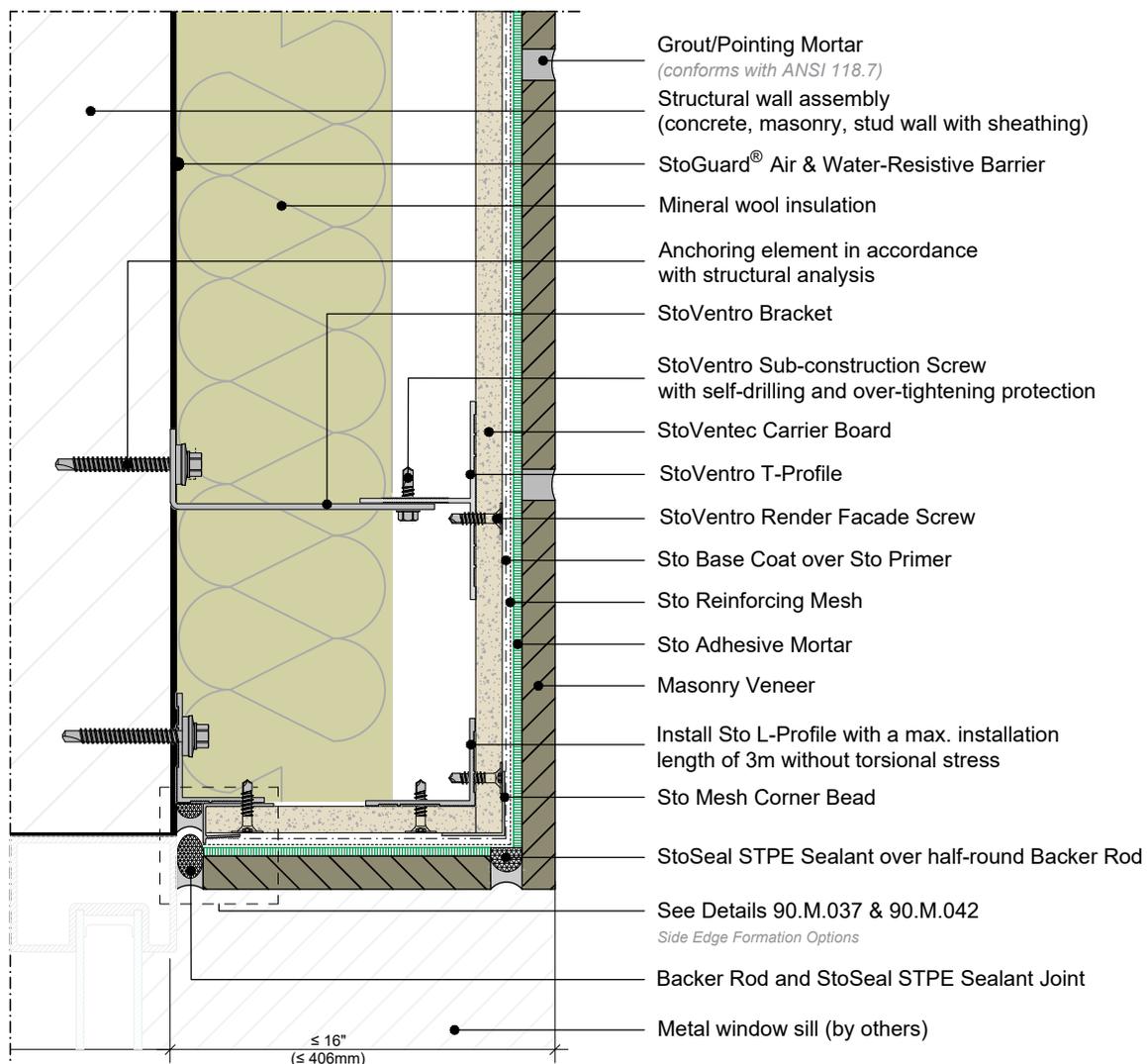
StoVentec® for Masonry Veneer Facades

Window Jamb with Backer Rod and StoSeal STPE Sealant Joint

Date: October 2025

Plan View

Detail No.: 90.M.085



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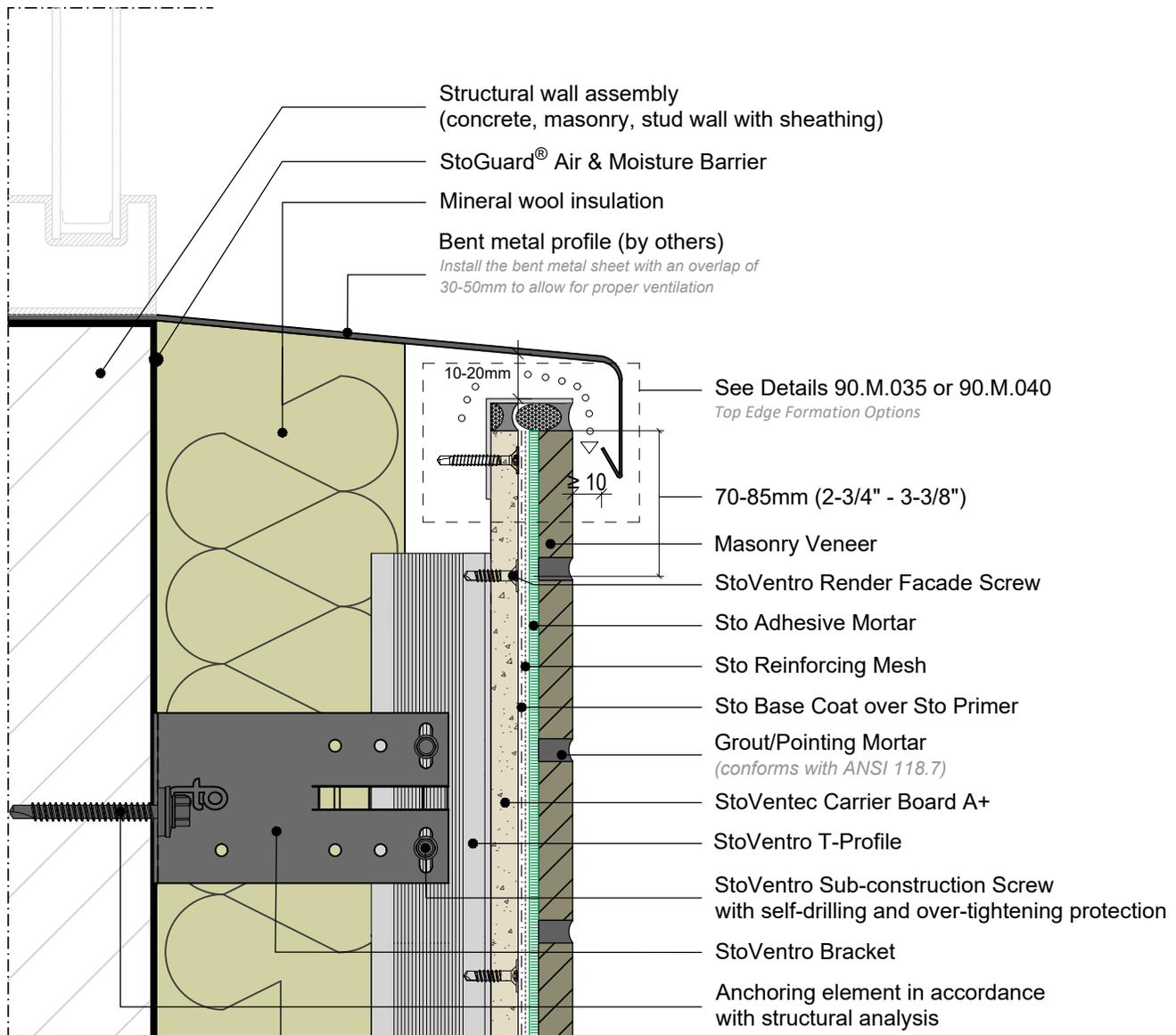
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StoVentec® for Masonry Veneer Facades**Window Sill**

Date: June 2021

Section View

Detail No.: 90.M.090

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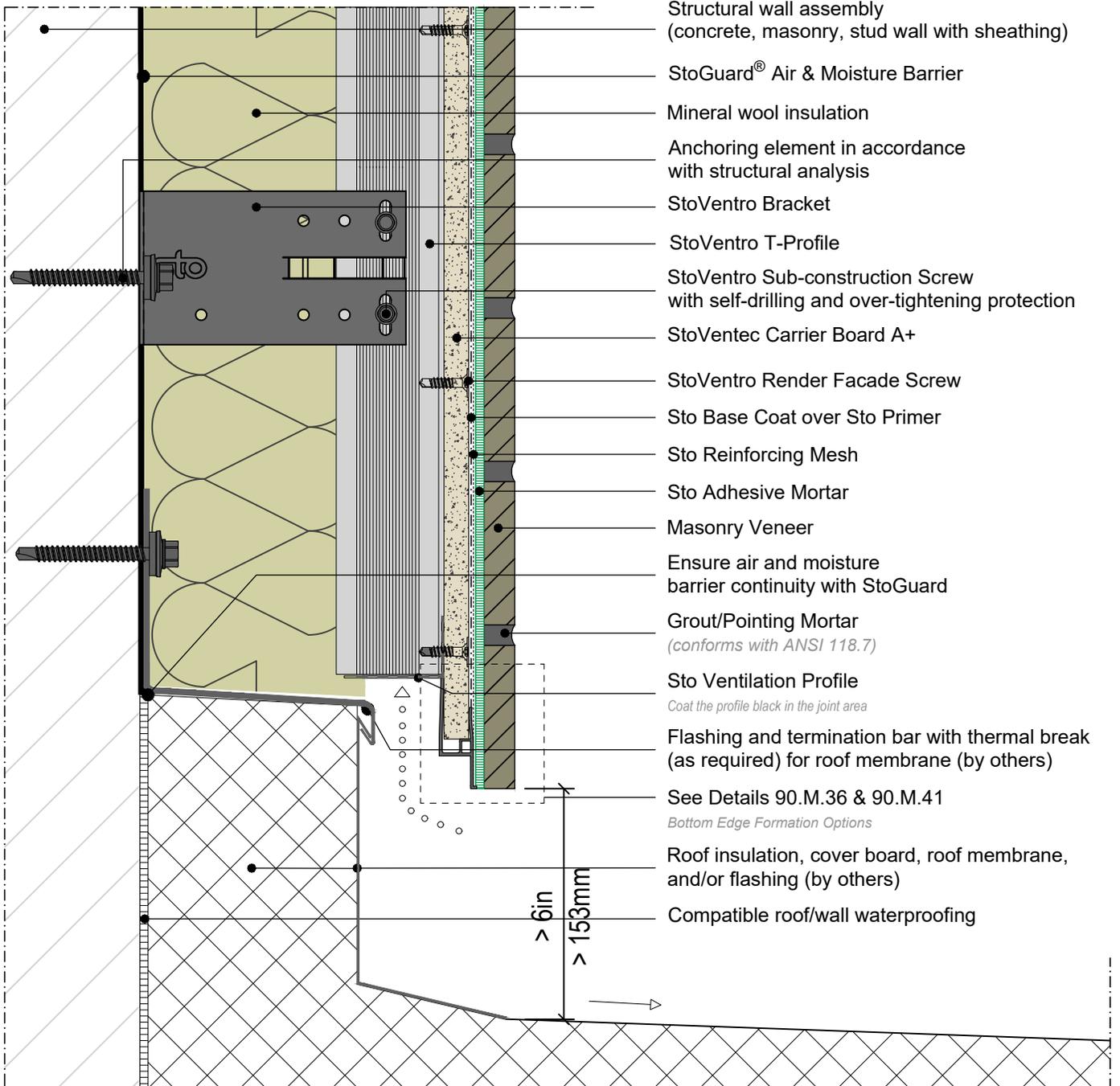
StoVentec® for Masonry Veneer Facades

Installation at Roofline

Date: June 2021

Section View

Detail No.: 90.M.150



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StoVentec® for Masonry Veneer Facades

Soffit or Ceiling Installation - Not Insulated (Unconditioned)

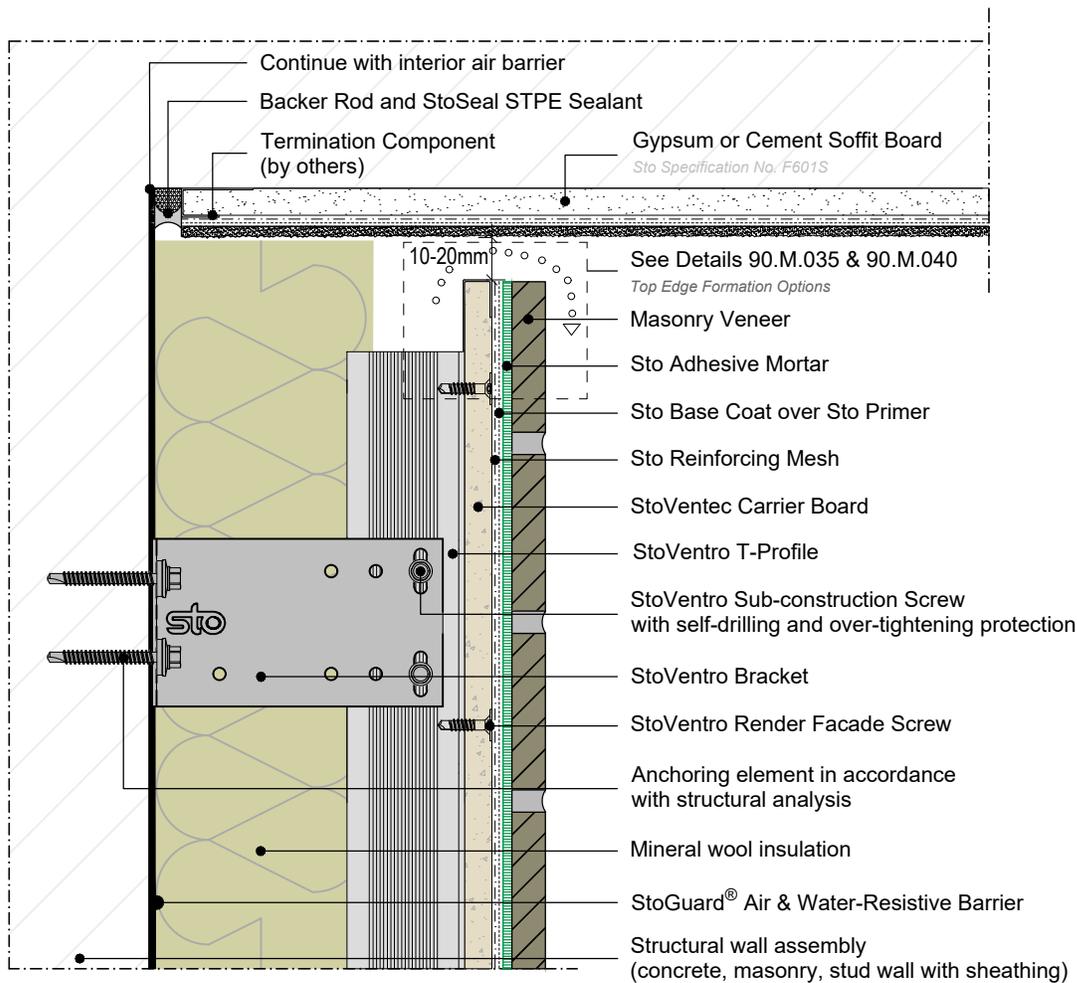
StoVentec MVES and Sto Direct-applied Finish System for Soffits and Ceilings

Section View

Date: October 2025

Detail No.: 90.M.161

Note: Direct-applied Exterior Finish System (DEFS) for use on weather protected walls and vented uninsulated exterior soffit and ceiling applications.



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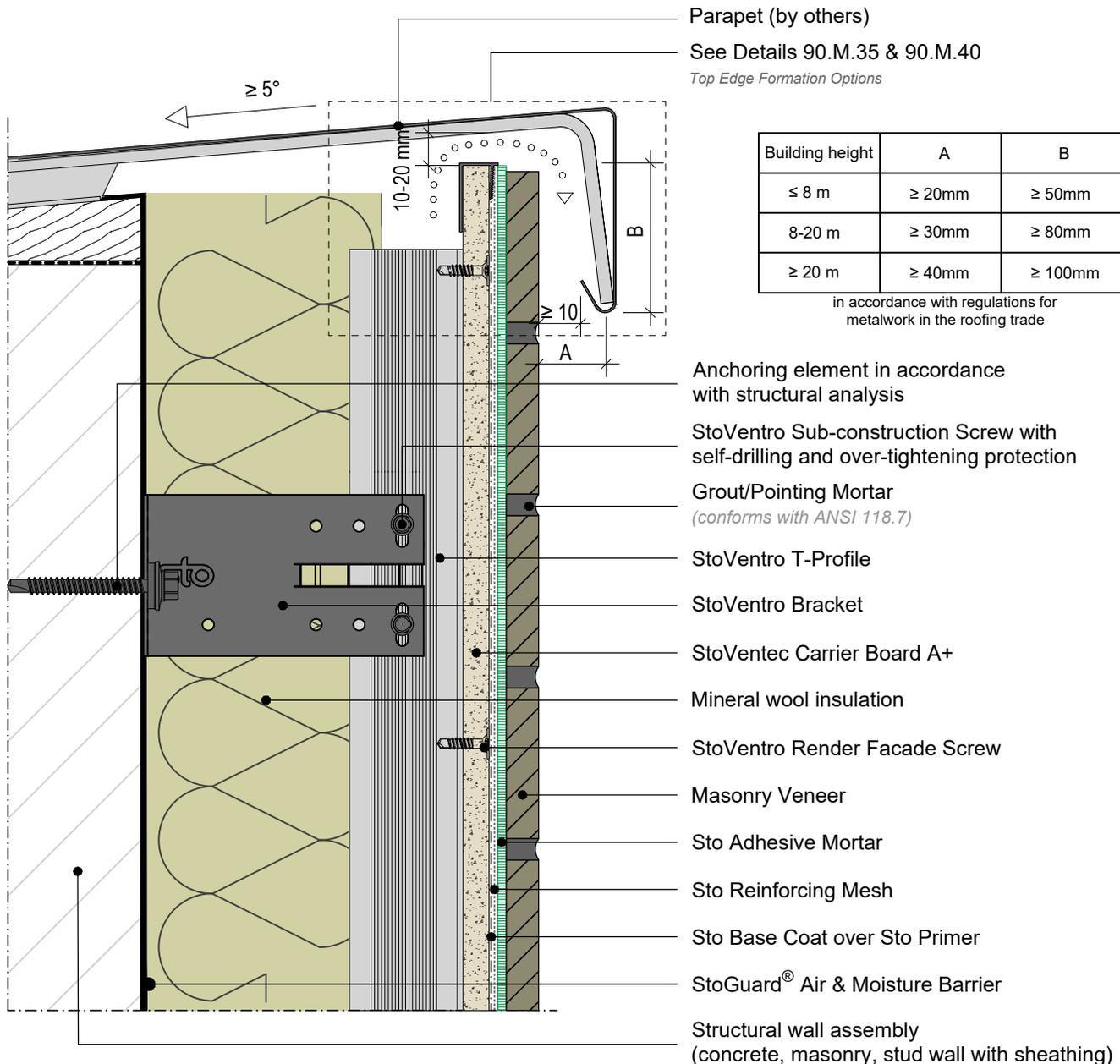
StoVentec® for Masonry Veneer Facades

Parapet with 10mm ventilation gap

Date: June 2021

Section View

Detail No.: 90.M.180



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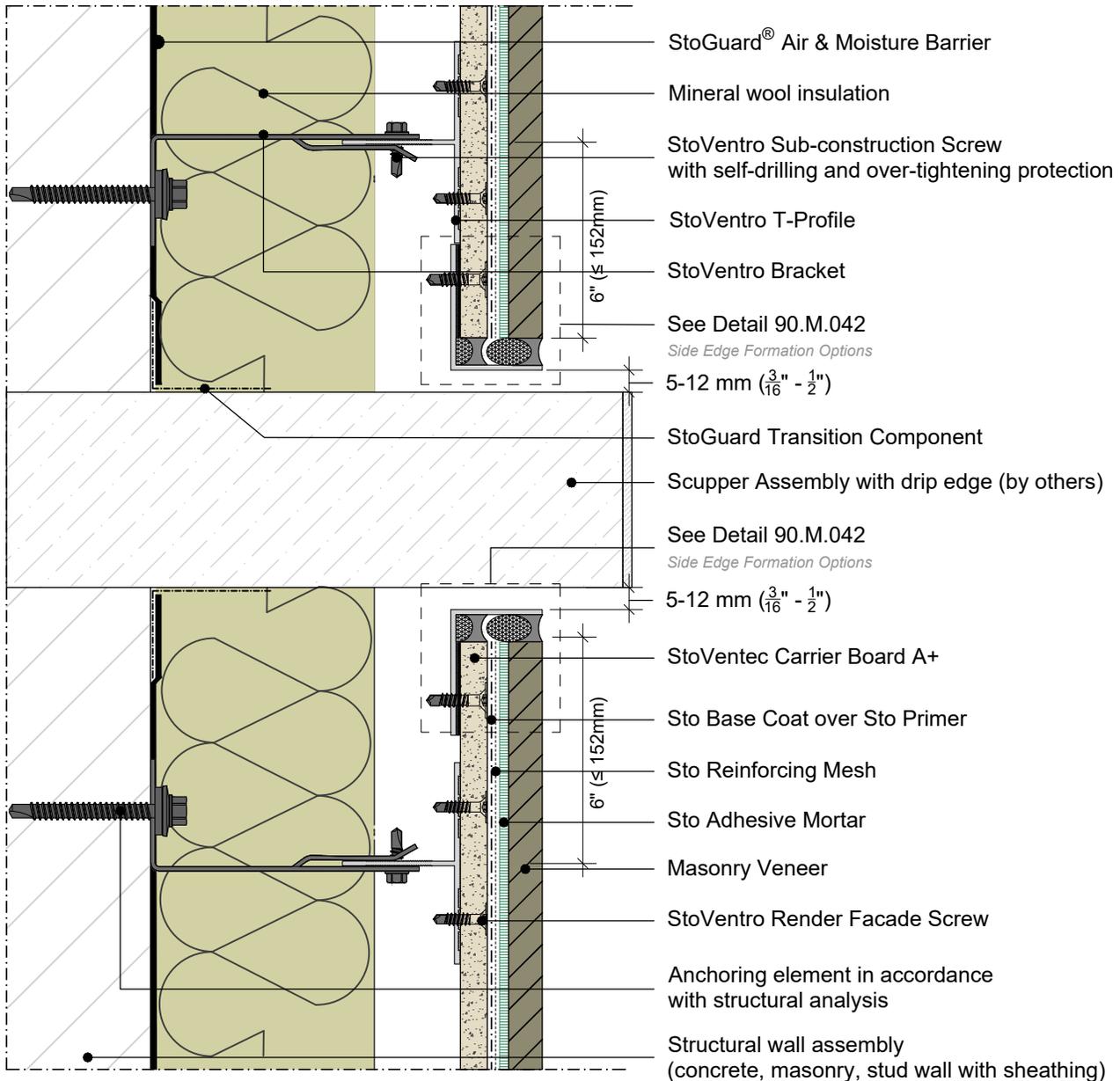
StoVentec® for Masonry Veneer Facades

Scupper Penetration with Open Joints

Date: June 2021

Plan View

Detail No.: 90.M.300



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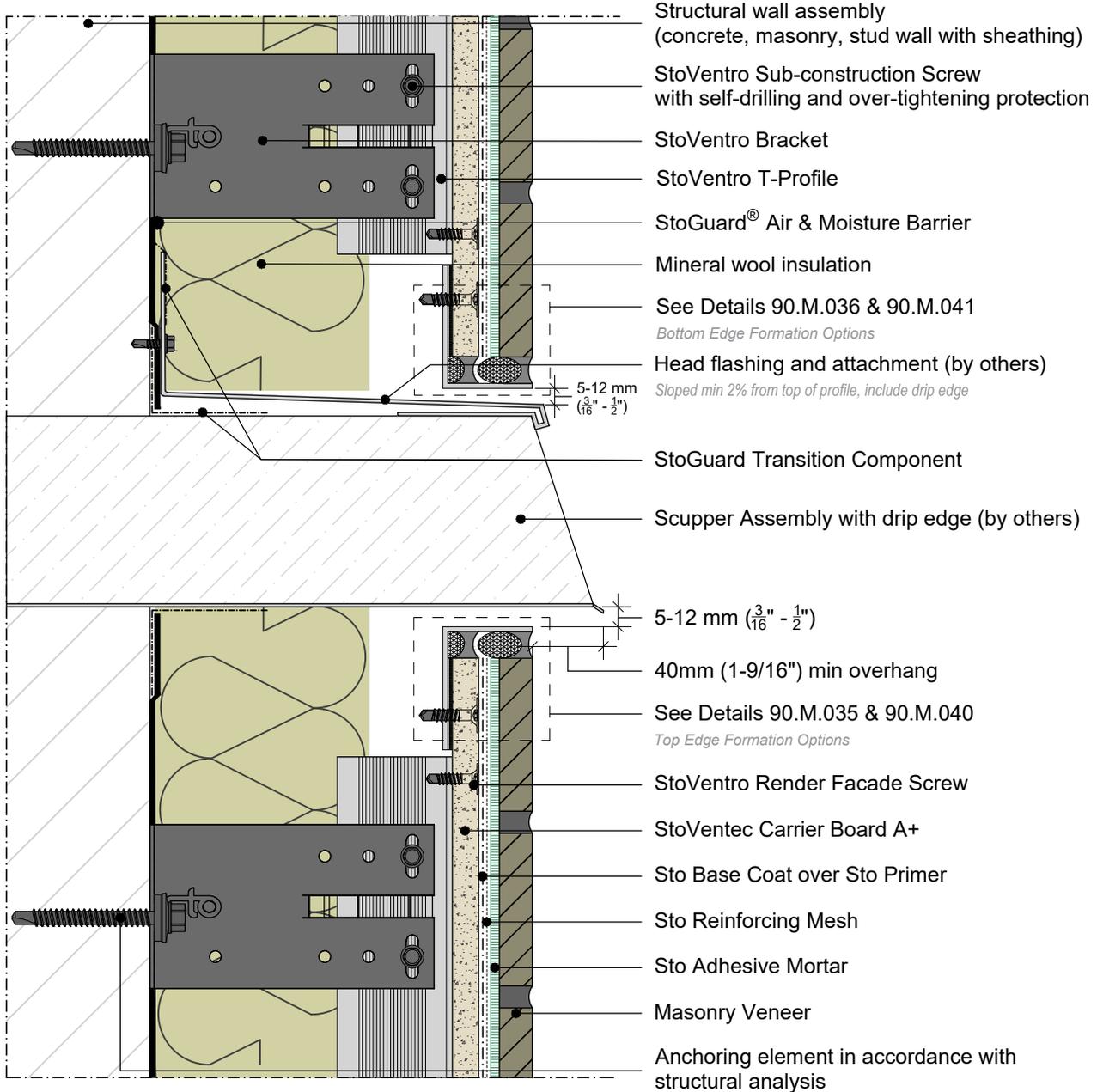
StoVentec® for Masonry Veneer Facades

Scupper Penetration, Flashing with Open Joints

Date: June 2021

Section View

Detail No.: 90.M.301


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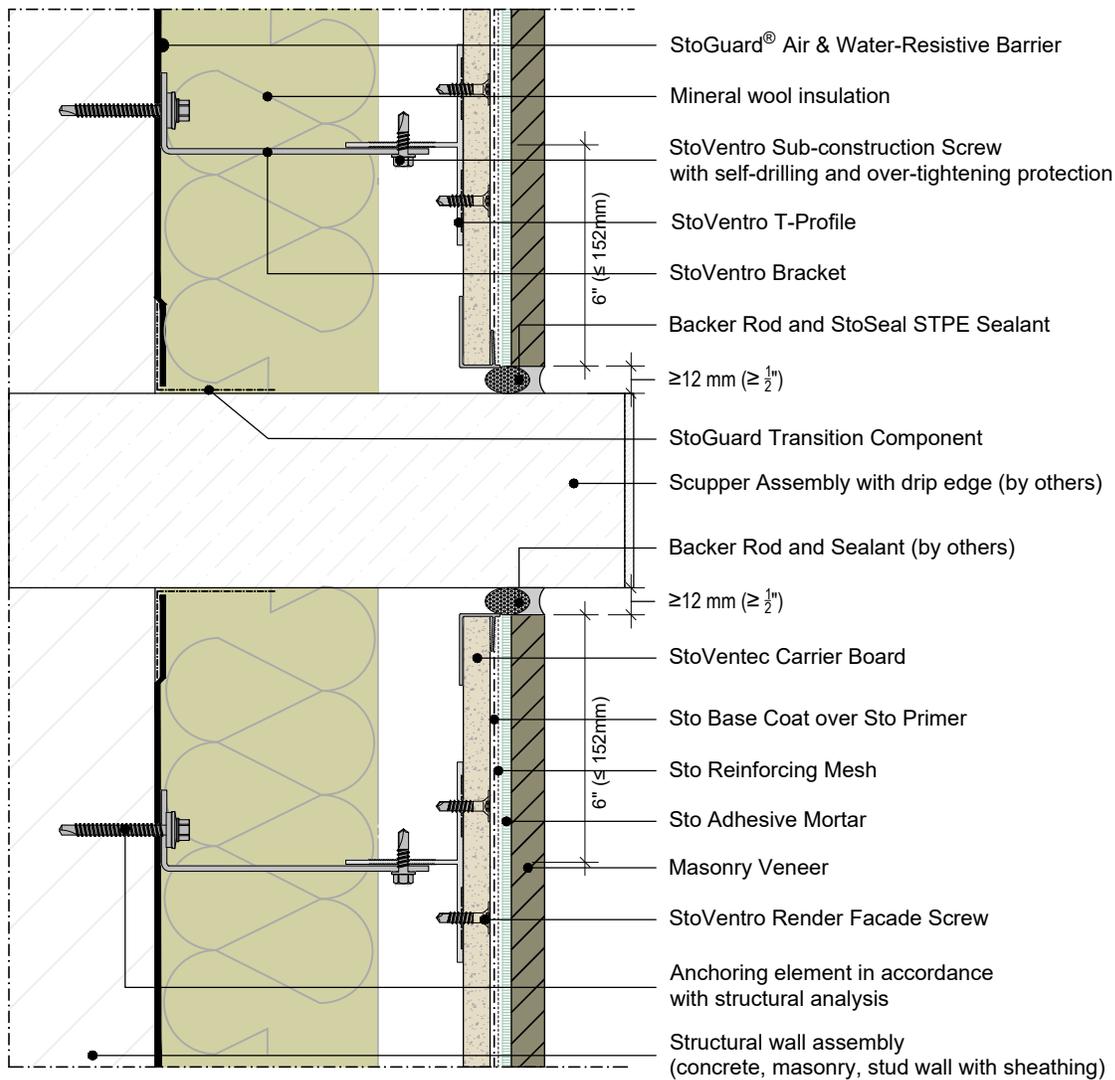
StoVentec® for Masonry Veneer Facades

Scupper Penetration with Backer Rod and StoSeal STPE Sealant

Date: October 2025

Plan View

Detail No.: 90.M.302



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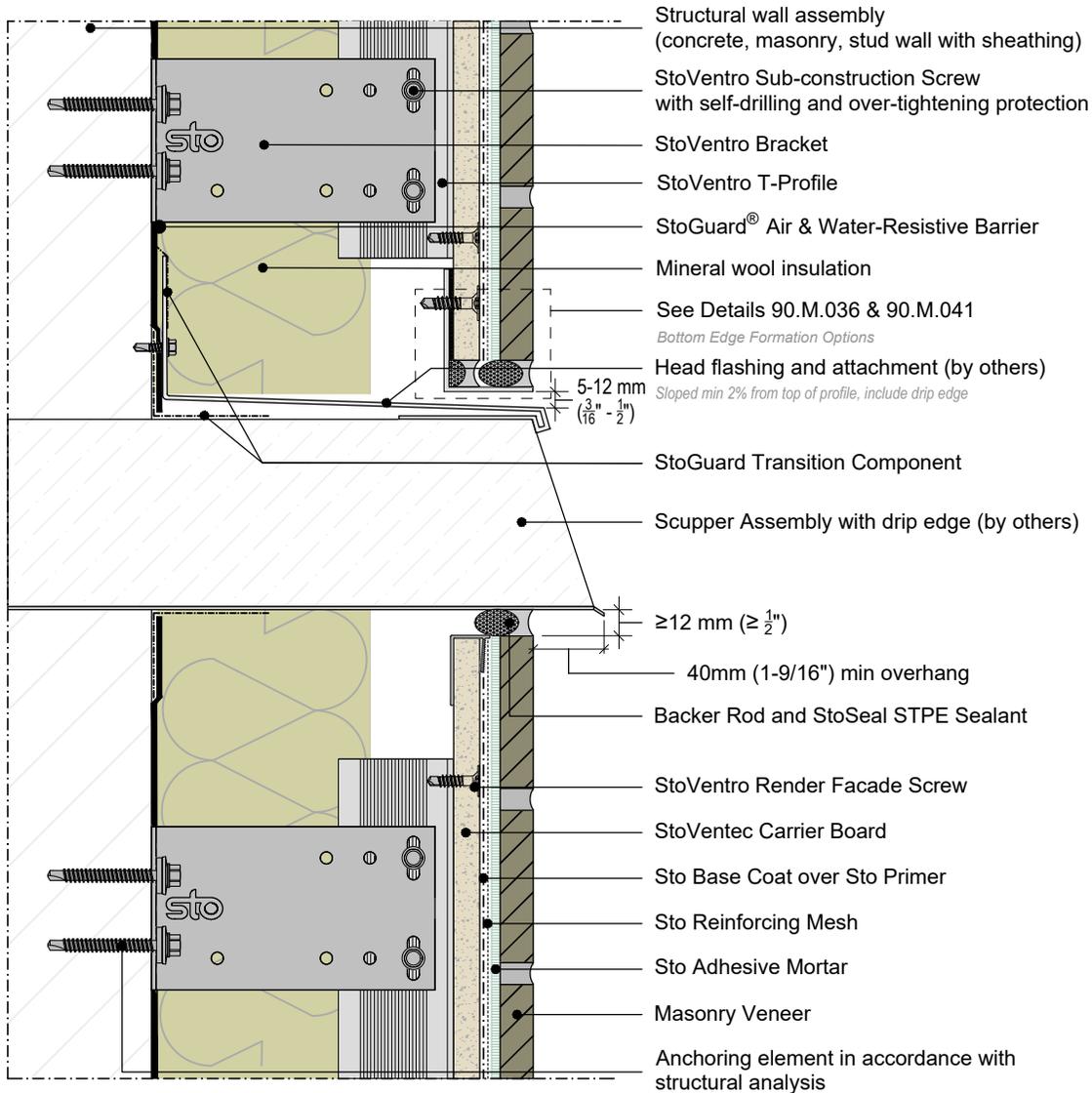
StoVentec® for Masonry Veneer Facades

Scupper Penetration, Flashing with Backer Rod and StoSeal STPE

Date: October 2025

Section View

Detail No.: 90.M.303



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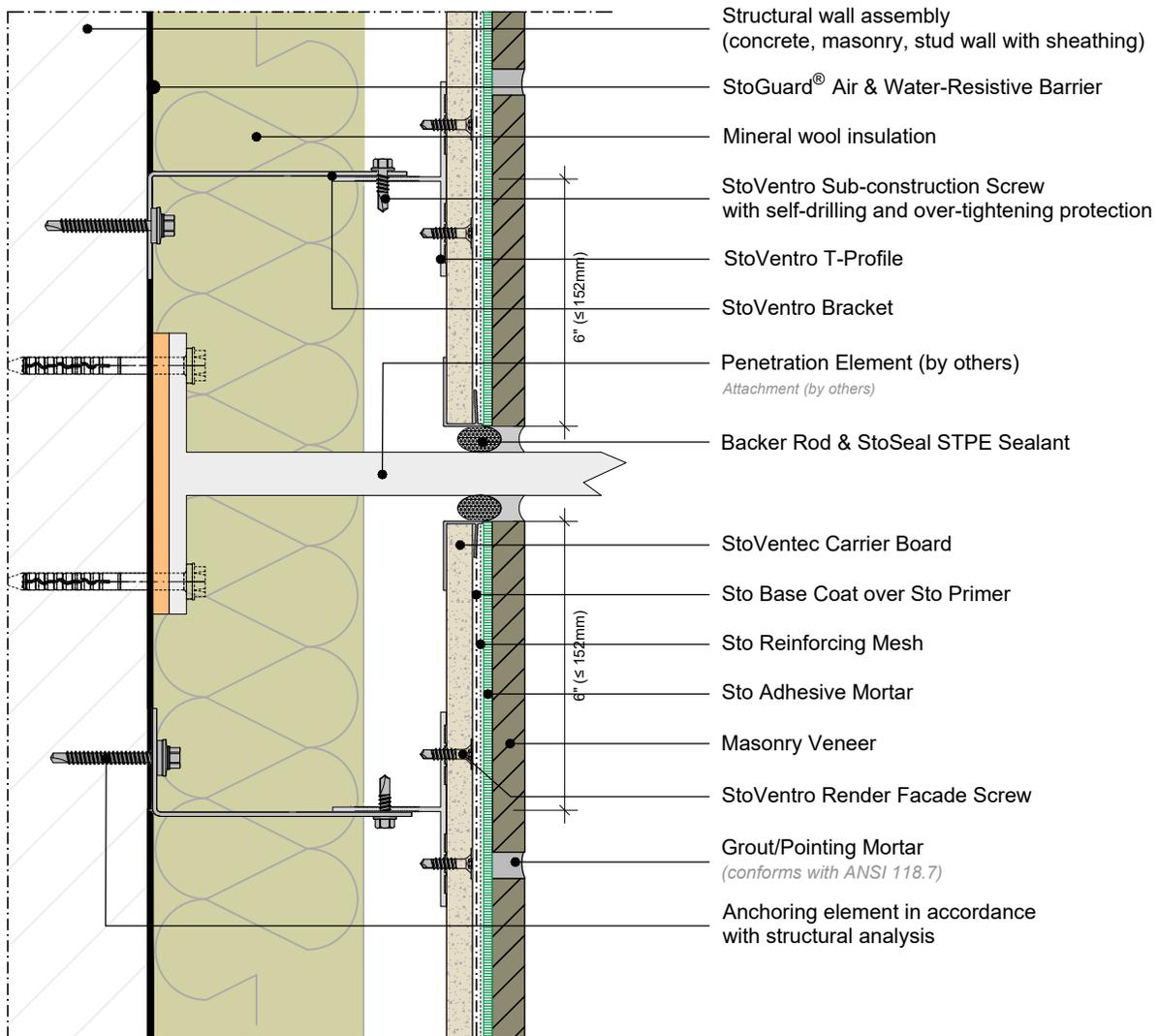
StoVentec® for Masonry Veneer Facades

Penetration with Backer Rod and StoSeal STPE Sealant

Date: October 2025

Plan View

Detail No.: 90.M.330



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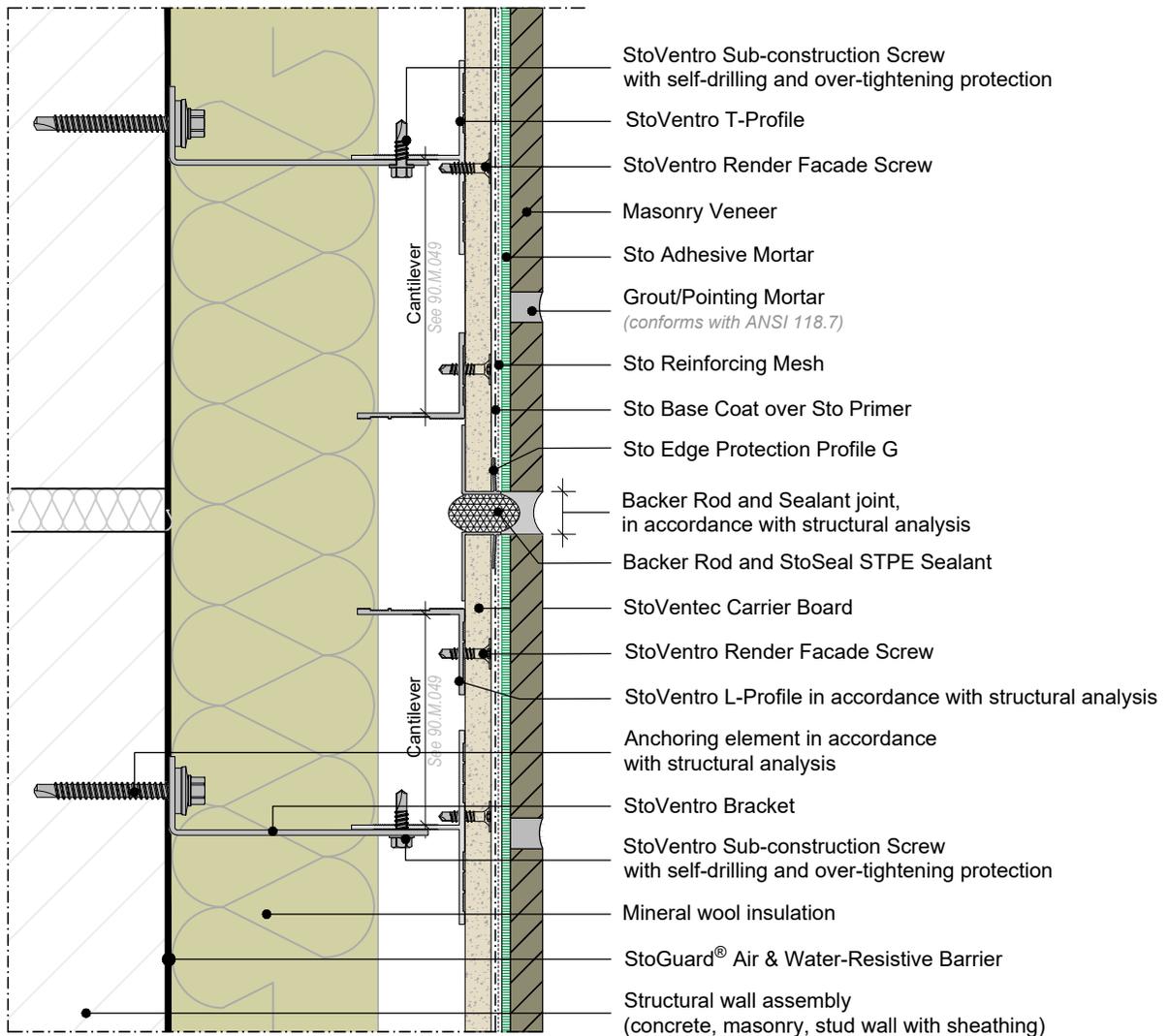
StoVentec® for Masonry Veneer Facades

Wall Structural Joint with Backer Rod and StoSeal STPE Sealant

Date: October 2025

Plan View

Detail No.: 90.M.390



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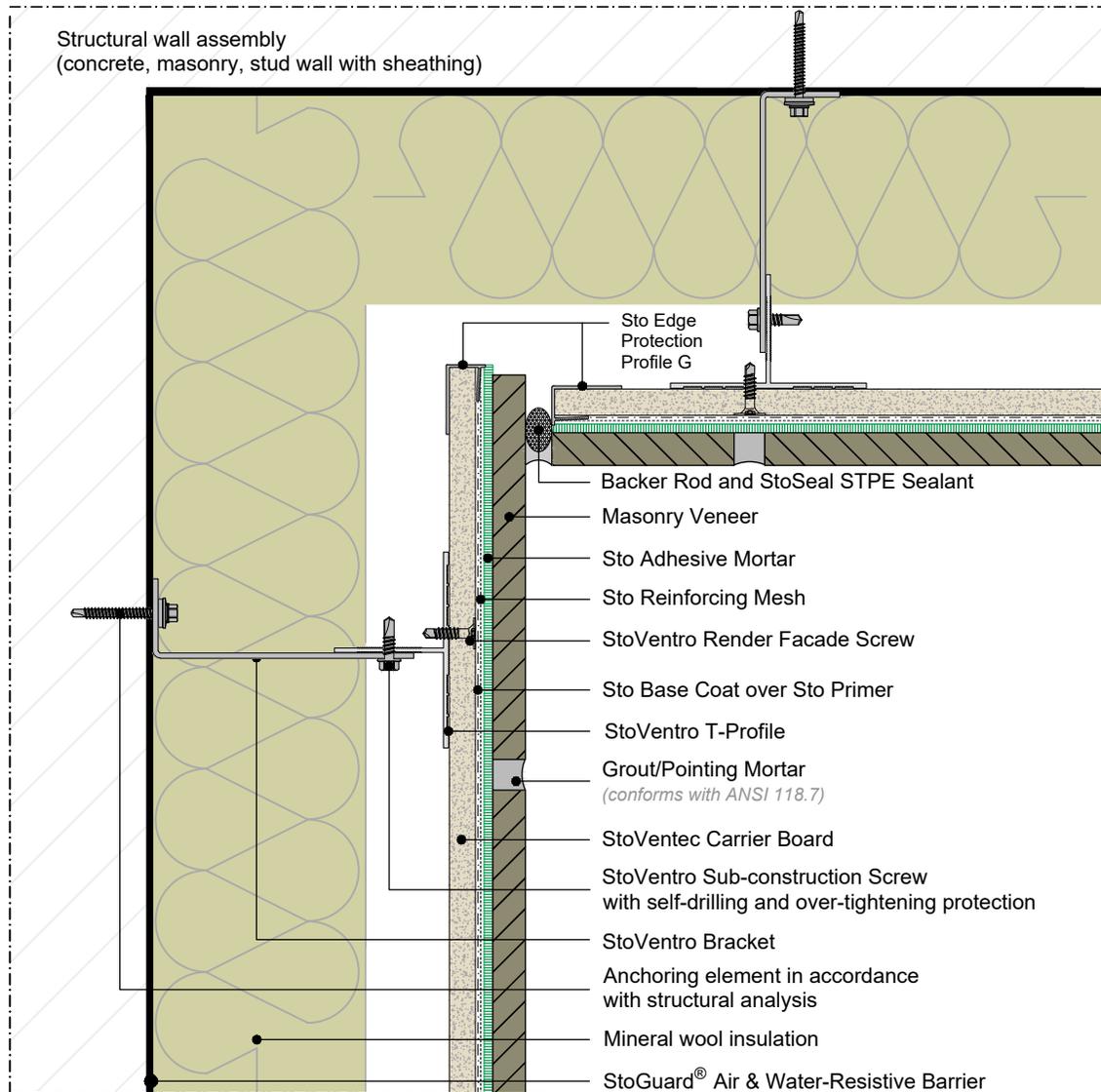
StoVentec® for Masonry Veneer Facades

Inside Corner with Backer Rod and StoSeal STPE Sealant Joint

Date: October 2025

Plan View

Detail No.: 90.M.400

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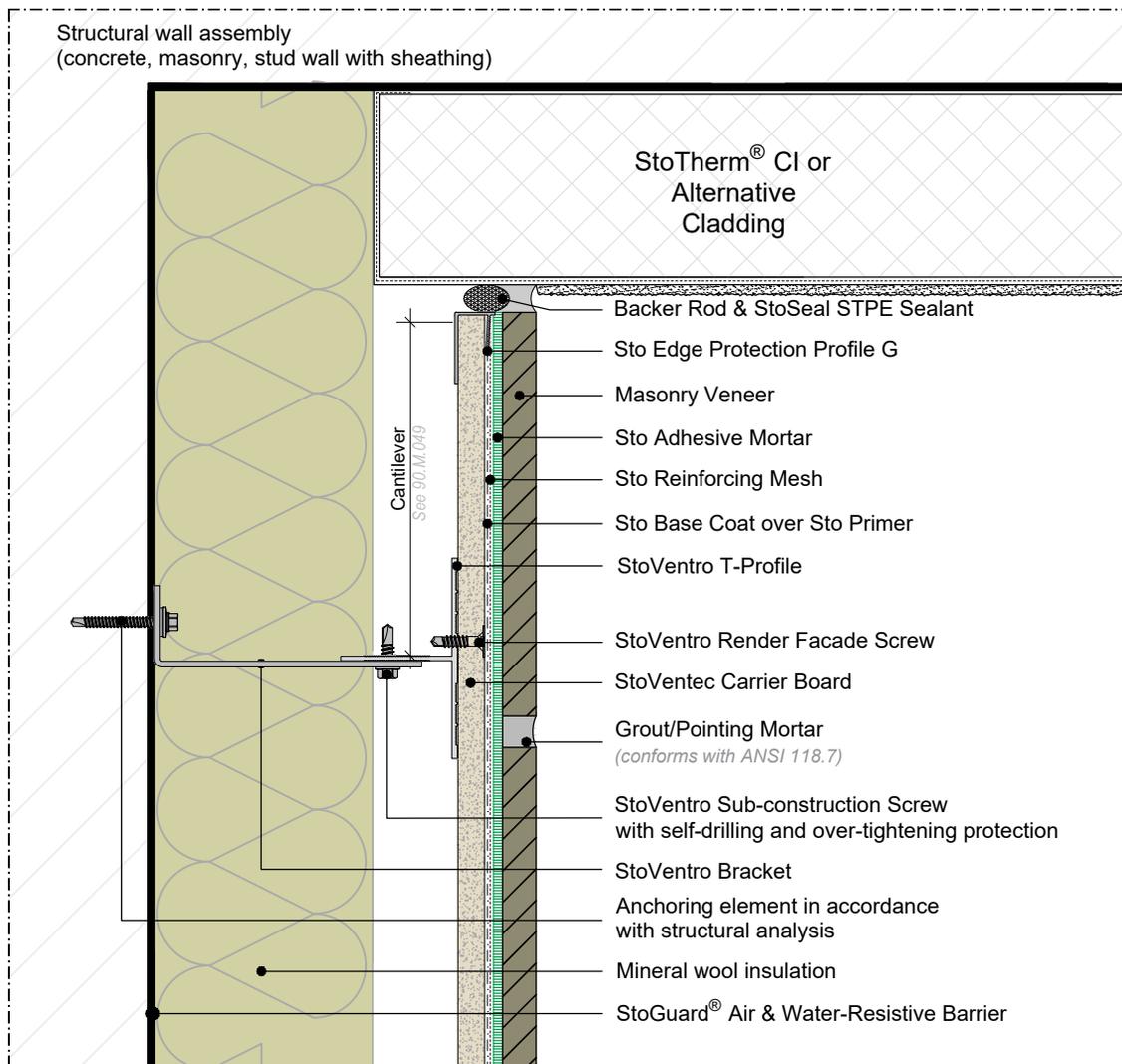
StoVentec® for Masonry Veneer Facades

Installation at Inside Corner to alternative facade with backer rod and StoSeal STPE Sealant

Plan View

Date: October 2025

Detail No.: 90.M.409



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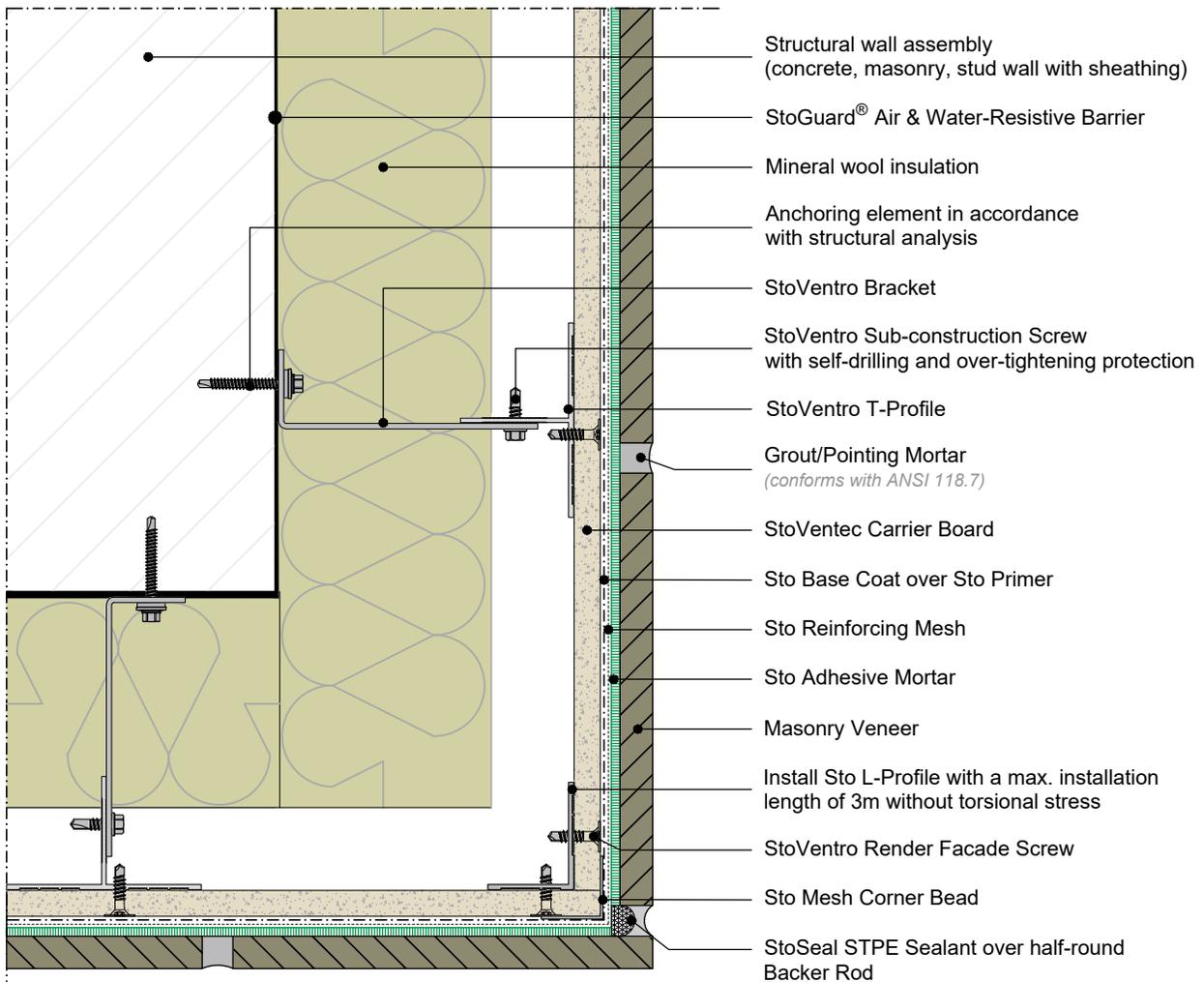
StoVentec® for Masonry Veneer Facades

Outside Corner - StoSeal STPE

Date: October 2025

Plan View

Detail No.: 90.M.410



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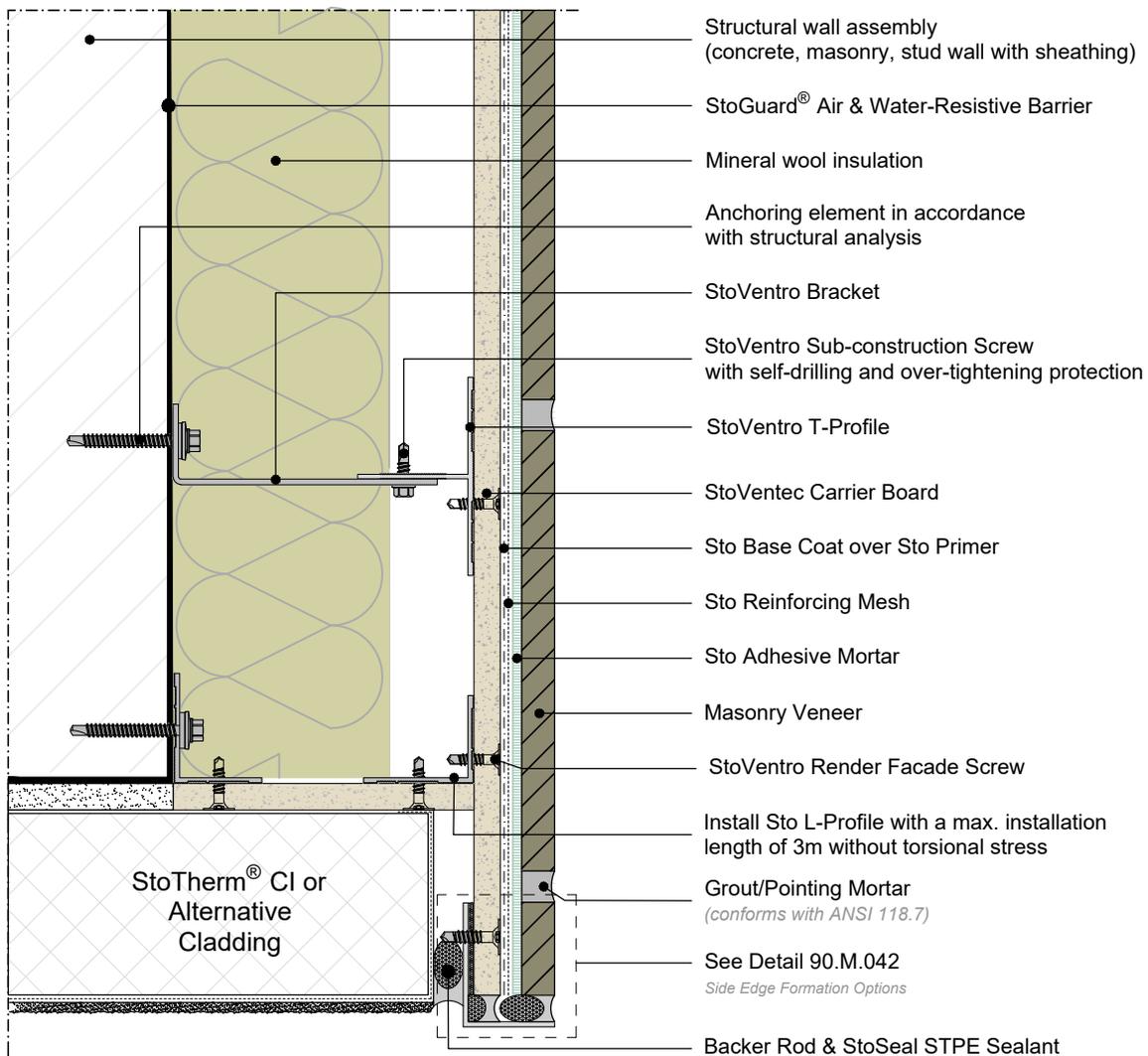
StoVentec® for Masonry Veneer Facades

Installation at Outside Corner to alternative facade

Date: October 2025

Plan View

Detail No.: 90.M.419



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StoVentec® for Masonry Veneer Facades

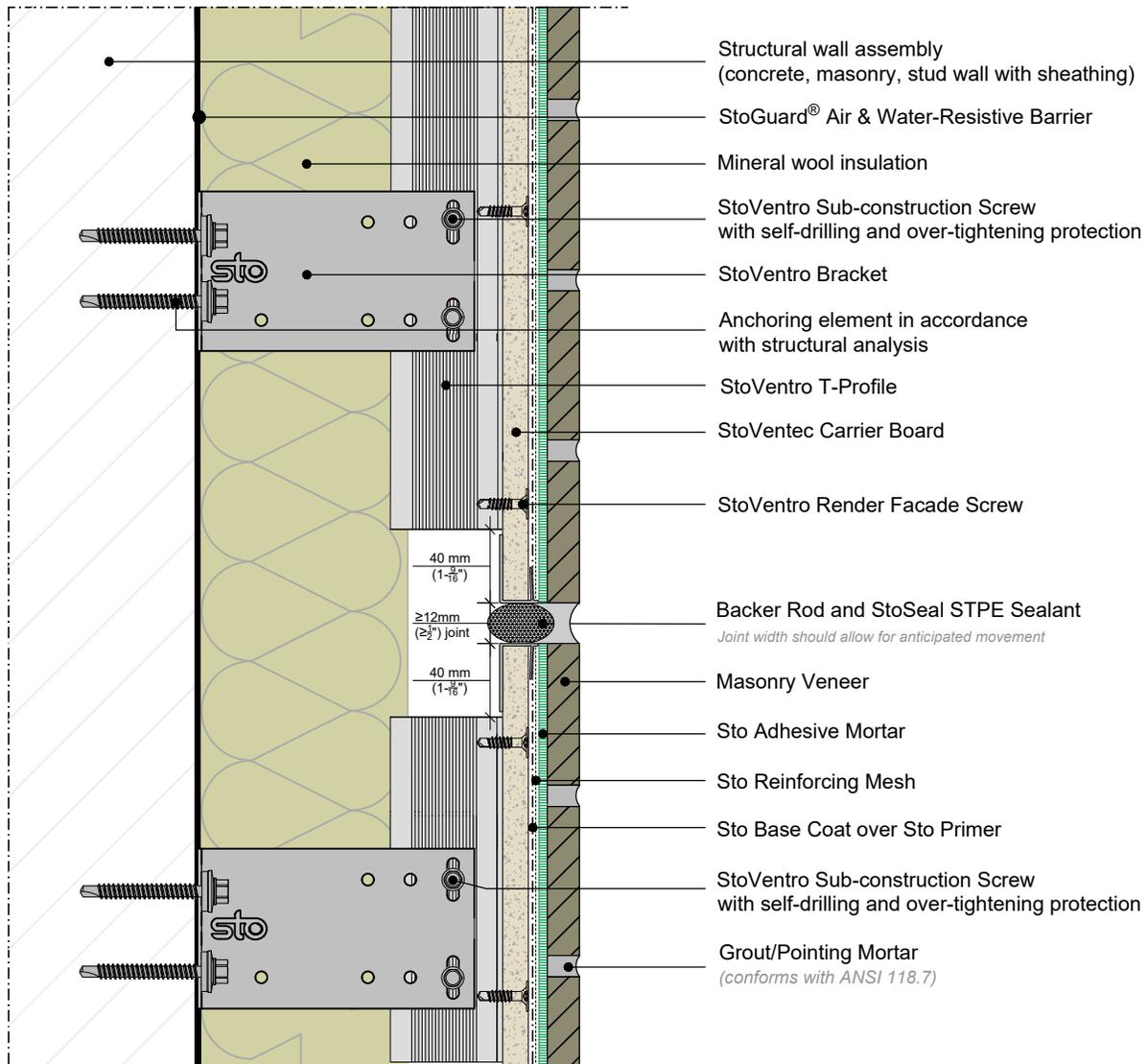
Horizontal Expansion Joint with Backer Rod and StoSeal STPE Sealant

Date: October 2025

Section View

Detail No.: 90.M.450

Refer to Design Guide for maximum span without joints



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StoVentec® for Masonry Veneer Facades

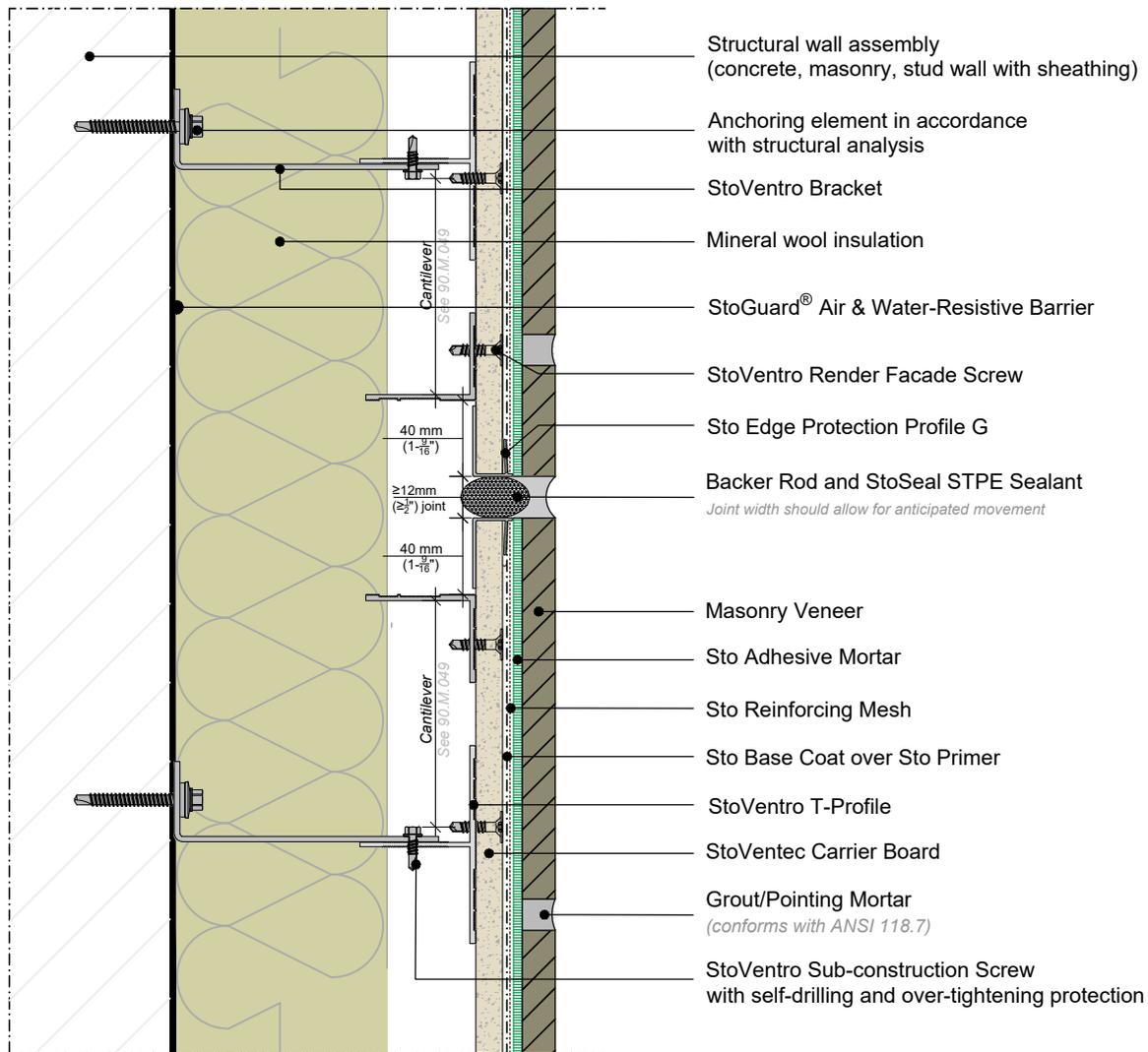
Vertical Expansion Joint with Backer Rod and StoSeal STPE Sealant

Date: October 2025

Plan View

Detail No.: 90.M.460

Refer to Design Guide for maximum span without joints



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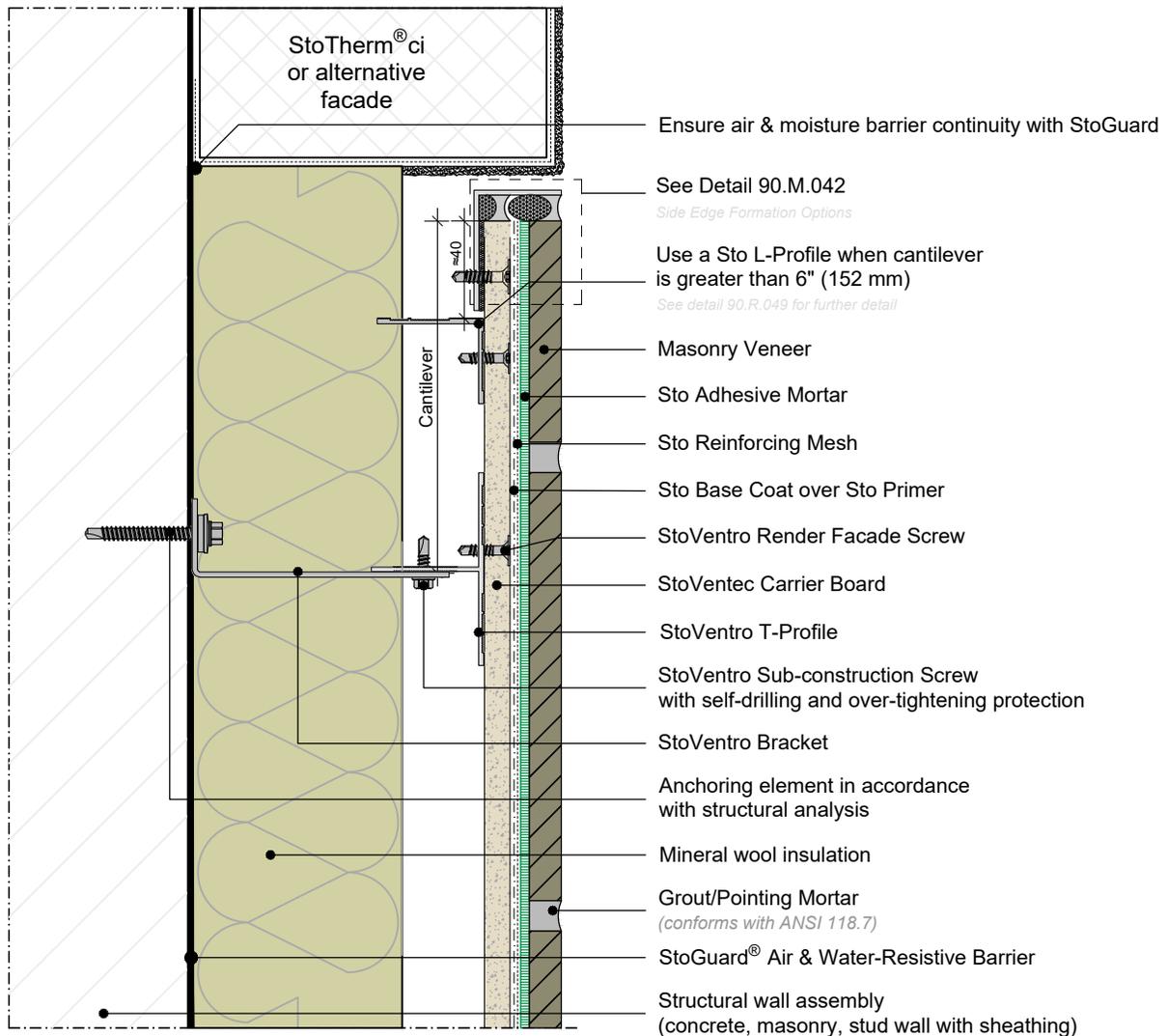
StoVentec® for Masonry Veneer Facades

Vertical Transition of StoVentec to Alternative Facade

Date: October 2025

Plan View

Detail No.: 90.M.470



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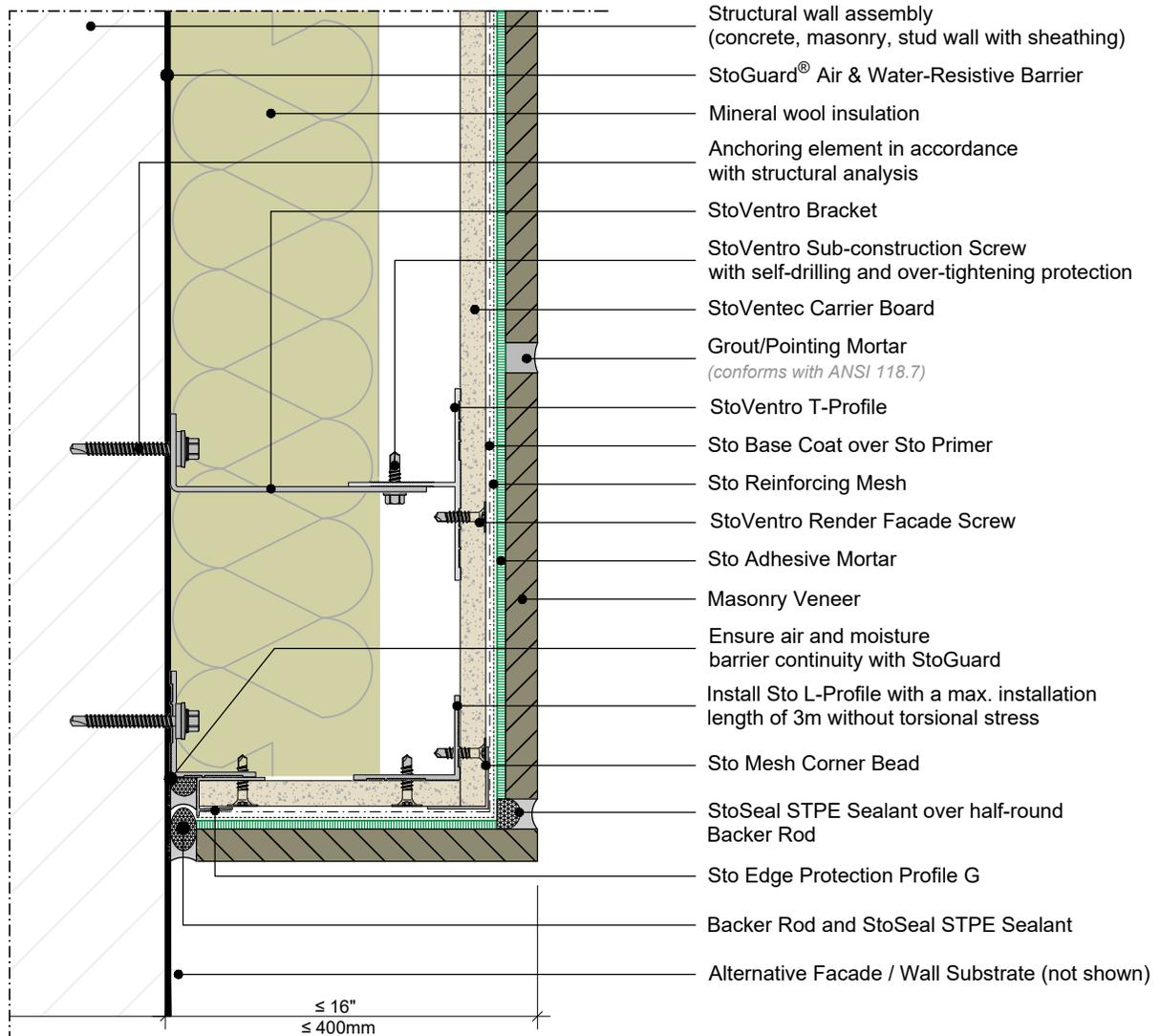
StoVentec® for Masonry Veneer Facades

Returning StoVentec to Alternative Facade/Wall Substrate

Date: October 2025

Plan View

Detail No.: 90.M.474



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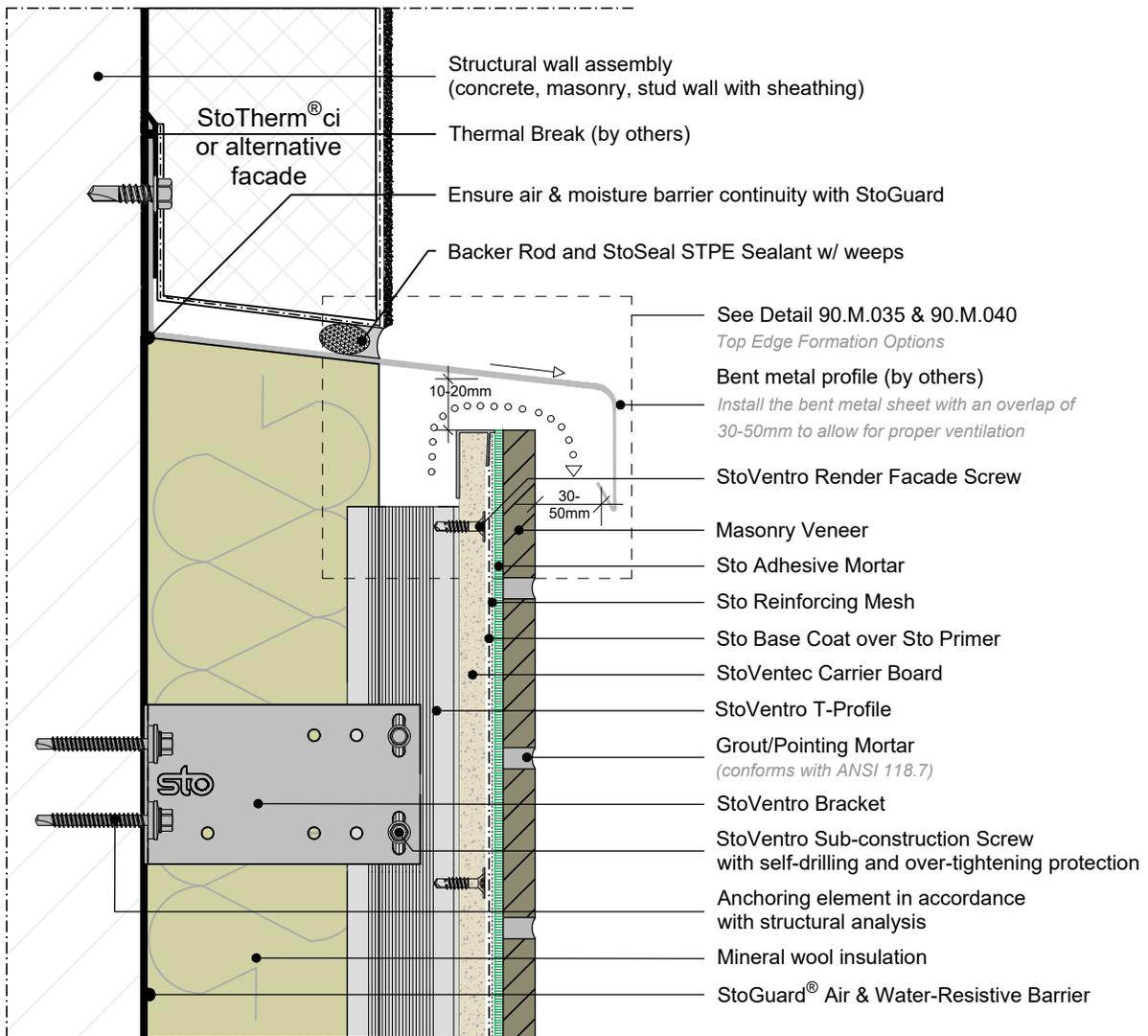
StoVentec® for Masonry Veneer Facades

Horizontal transition to alternative facade above

Date: October 2025

Section View

Detail No.: 90.M.475



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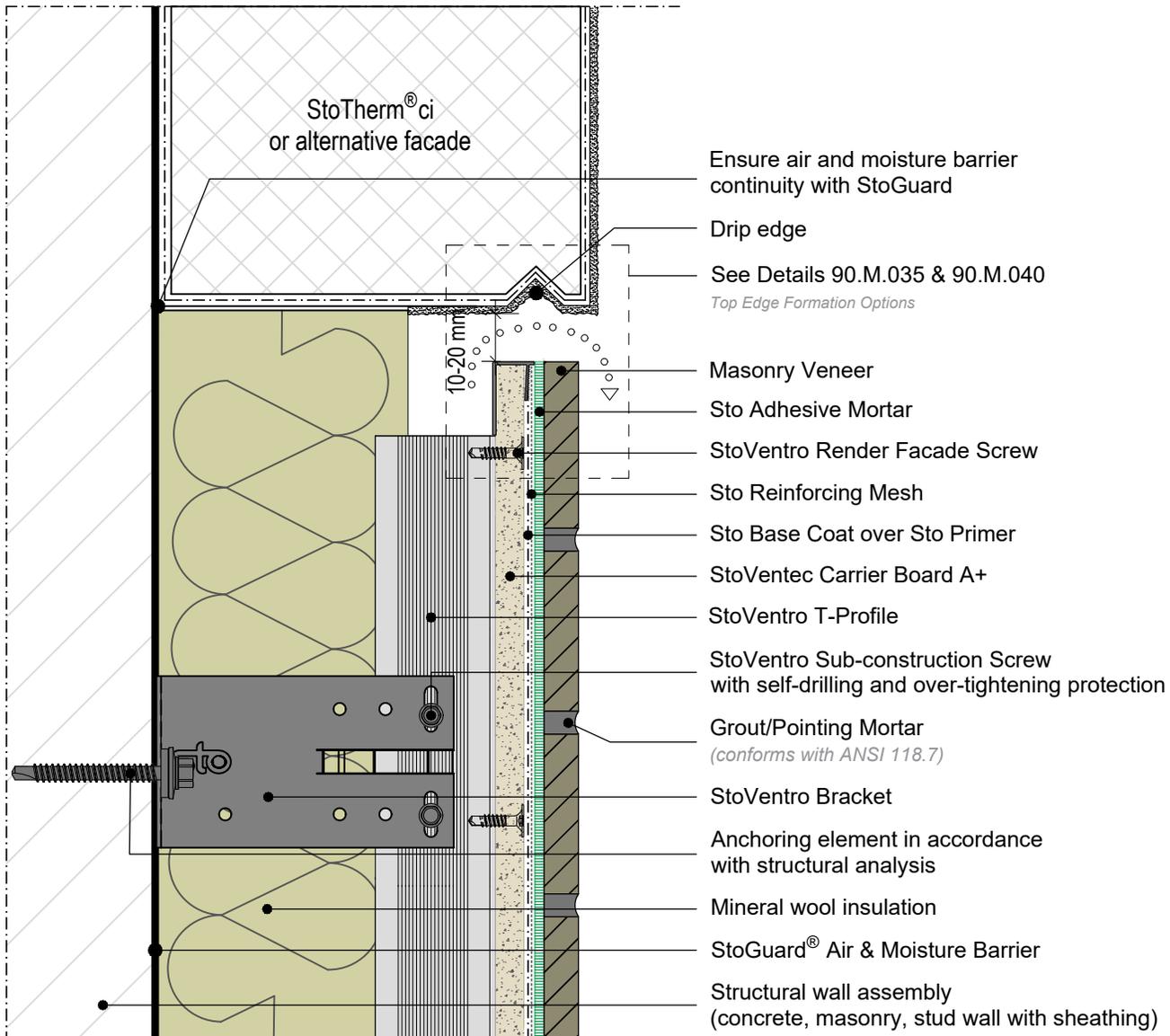
StoVentec® for Masonry Veneer Facades

Horizontal Transition of StoVentec under alternative facade

Date: June 2021

Section View

Detail No.: 90.M.476



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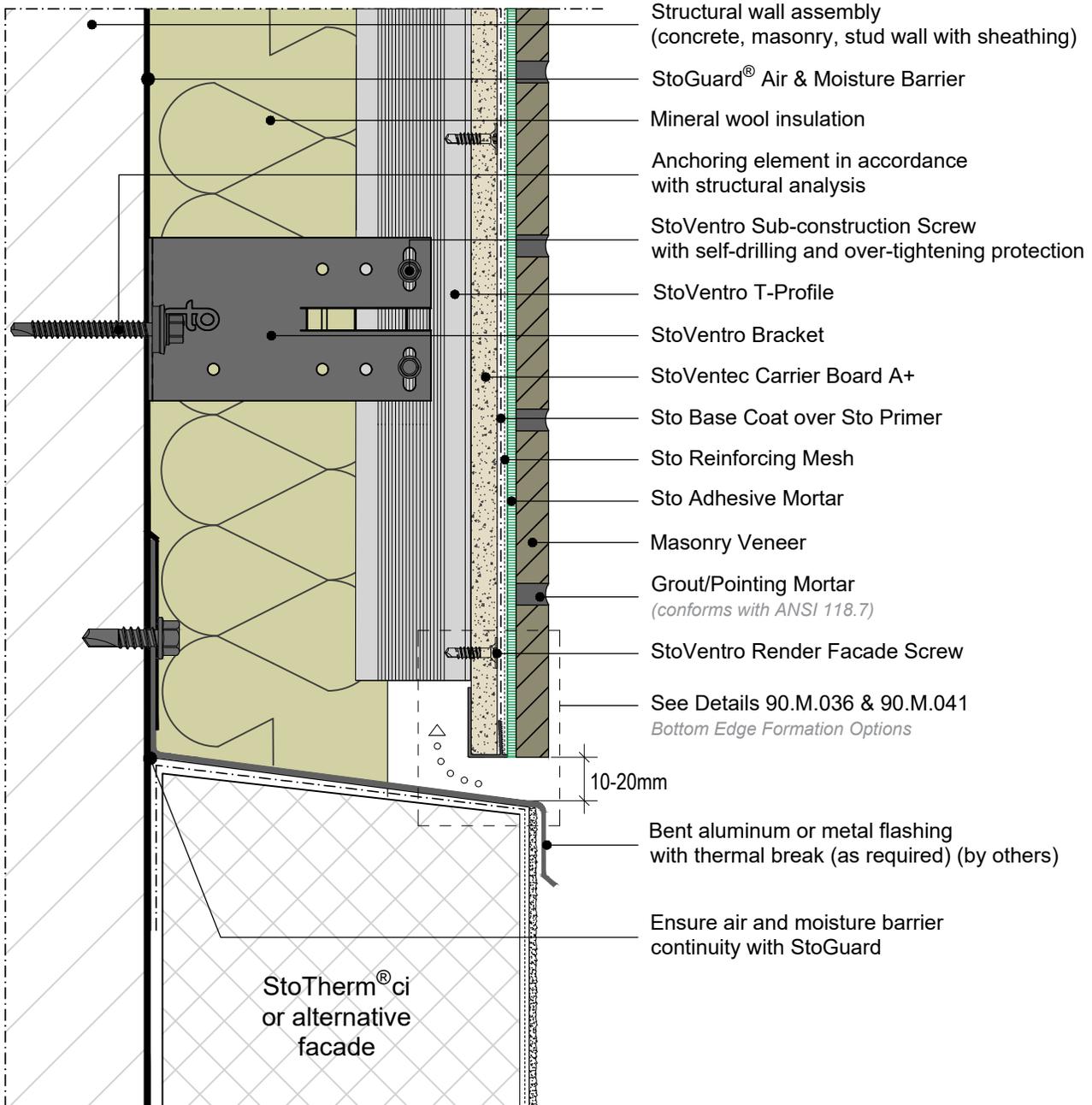
StoVentec® for Masonry Veneer Facades

Horizontal Transition of StoVentec above alternative facade (facades flush)

Date: June 2021

Section View

Detail No.: 90.M.478


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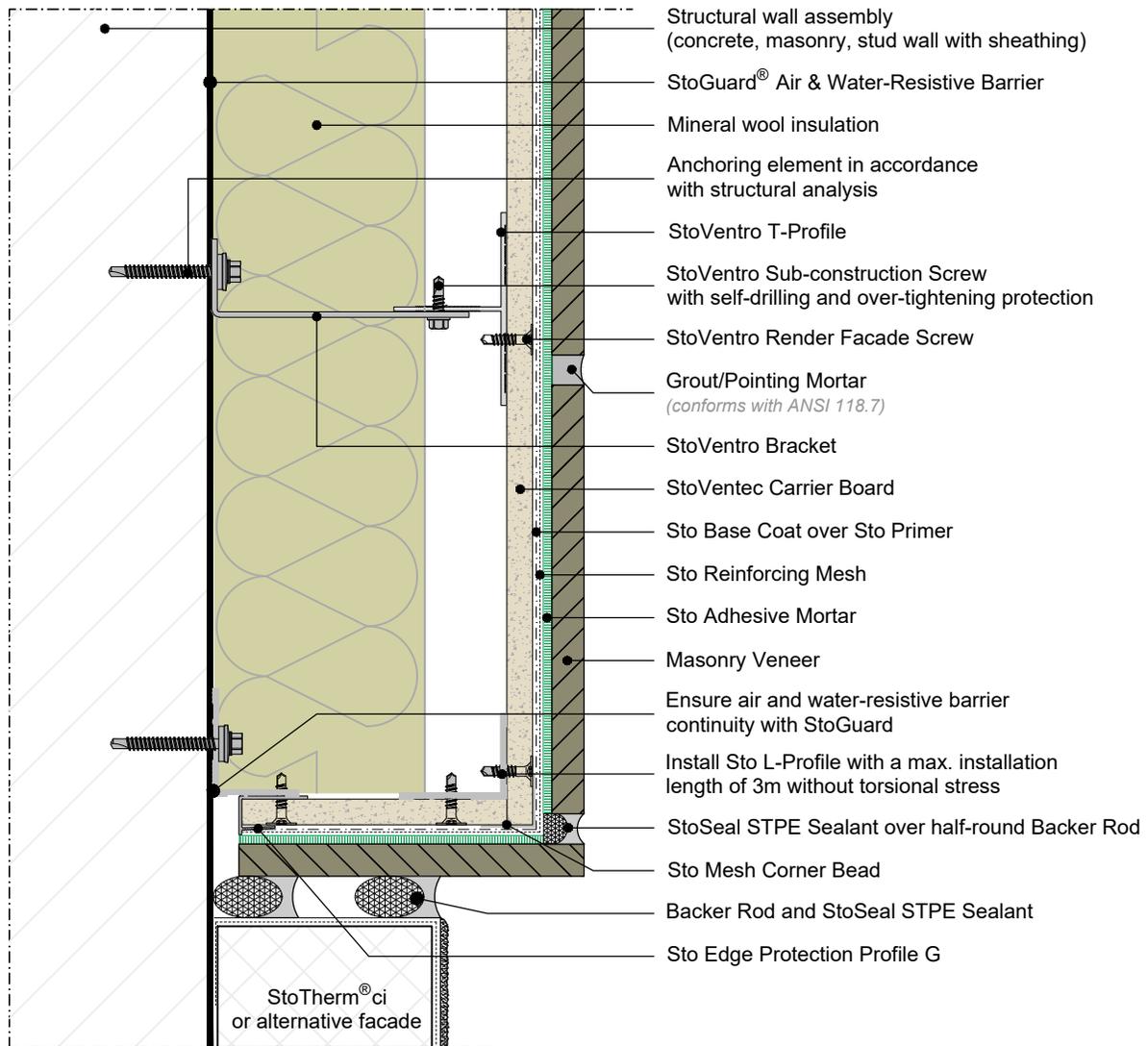
StoVentec® for Masonry Veneer Facades

Vertical Transition of StoVentec to Alternative Facade (StoVentec proud)

Date: October 2025

Plan View

Detail No.: 90.M.486



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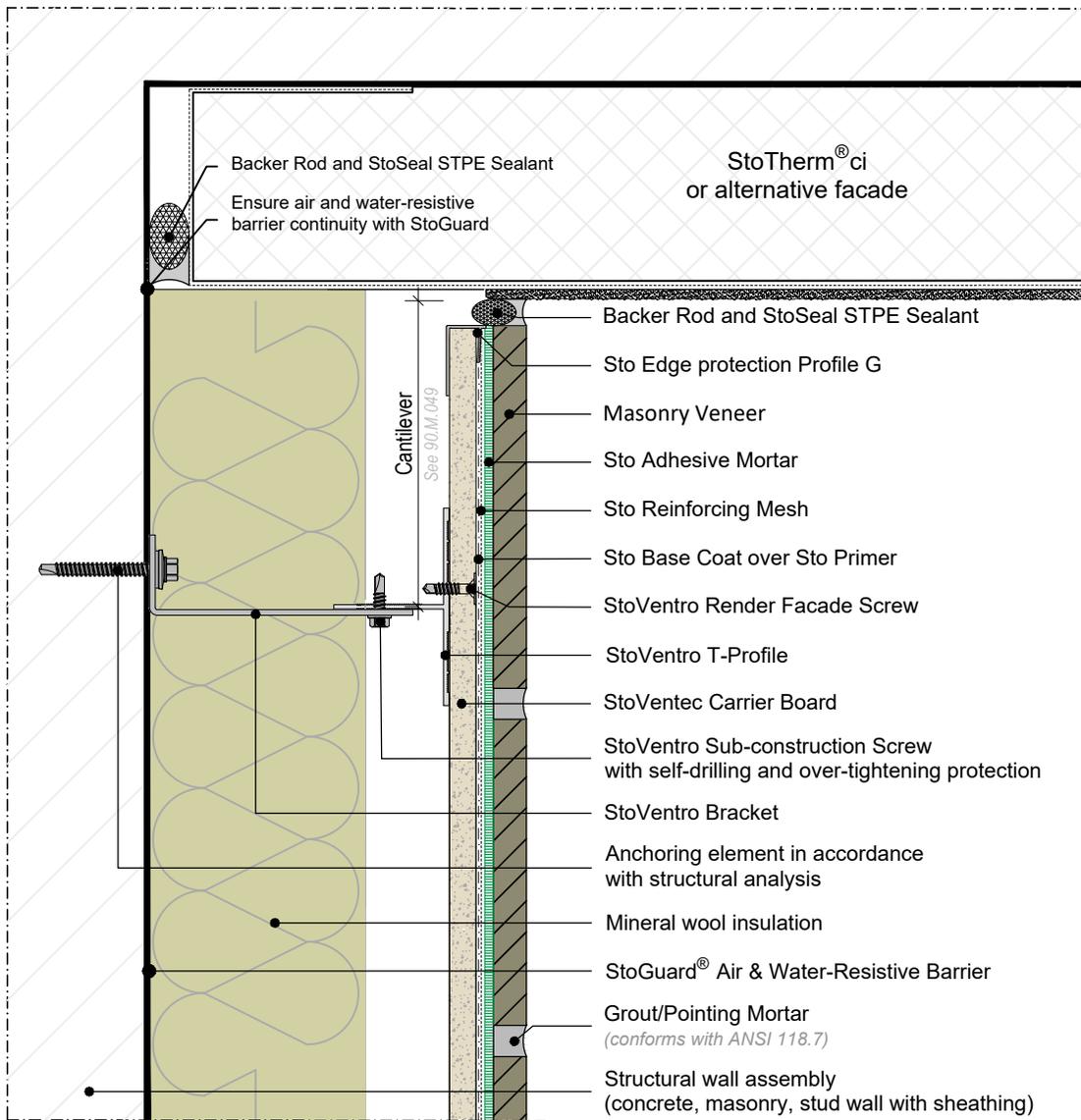
StoVentec® for Masonry Veneer Facades

Inside corner to alternative facade - with StoSeal STPE

Date: October 2025

Plan View

Detail No.: 90.M.490



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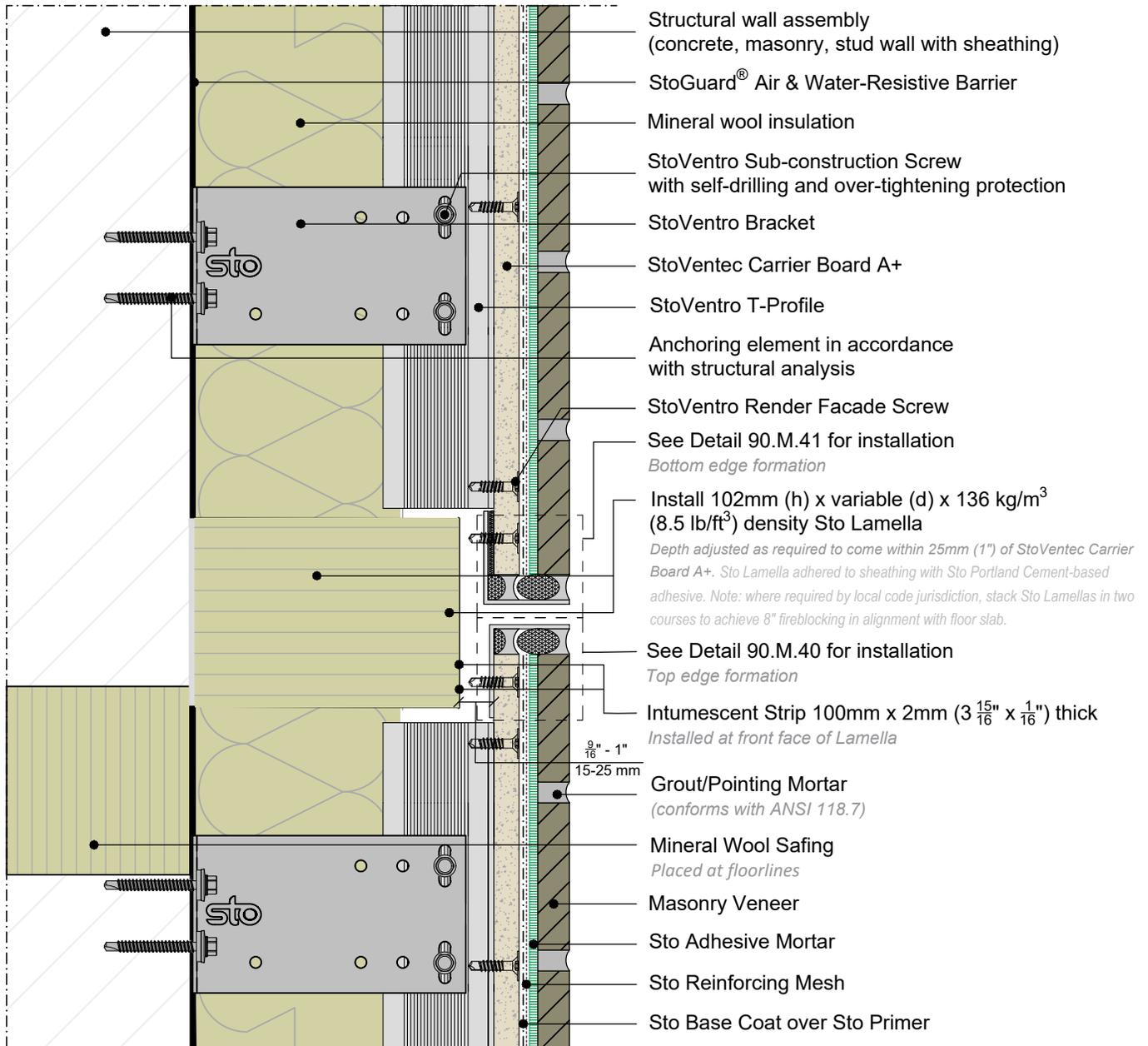
StoVentec® for Masonry Veneer Facades

Fire Protection at Floor Lines w/ Sto Lamella and Intumescent Tape Fire Break
 NFPA 285 Compliant, Intertek Design listing No. STO/CWP 30-02

Section View

Date: August 2024

Detail No.: 90.M.550



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